Math

FINAL EXAMINATIONS

- ⊙ *Model Examinations of the School Book*
  (2 models + model for the special needs students).
- ⊙ *25 Schools' Examinations from Different Governorates* 2020

Model Examinations of the School Book

Model 1

Answer the following questions :

1 Choose the correct answer :

(1) The triangle whose measures of its angles are 50° , 90° and 40°
is ·············· (a acute-angled triangle *or* an obtuse-angled triangle
or a right-angled triangle *or* otherwise)

(2) $4\frac{1}{8} \times 2\frac{2}{3}$ = ·············· (1 *or* 10 *or* 11 *or* 111)

(3) If $\{7 , 10\} \subset \{10 , x + 4\}$, then x = ··············

(3 *or* 4 *or* 5 *or* 6)

(4) 3.75×1000 = ·············· (0.375 *or* 0.0375 *or* 3750 *or* 37.5)

(5) $\frac{1}{2}$ ☐ $\frac{1}{3}$ (< *or* > *or* = *or* ≤)

(6)

The shaded part is ··············

(X ∩ Y *or* X ∪ Y *or* X − Y *or* X ⊂ Y)

(7) 55.241×100 ☐ 522.41×10 (< *or* > *or* = *or* ≤)

(8) $\frac{2}{3} \times$ ·············· = 1 (1 *or* 2 *or* 3 *or* $\frac{3}{2}$)

(9) 43 day ≃ ·············· (to the nearest week) (4 *or* 6 *or* 5 *or* 7)

(10) Any chord passing through the centre of a circle is called ··············

(a diameter *or* a radius *or* a side *or* otherwise)

(11) $\{52\}$ ·············· $\{5 , 2\}$ (∈ *or* ∉ *or* ⊂ *or* ⊄)

(12) $12.3 \times$ ·············· = 1230 (10 *or* 100 *or* 1000 *or* 10000)

(13) $Y = \{2 , 4 , 6\} \cap \{1 , 2 , 3\}$, then 6 ·············· Y

(∈ *or* ∉ *or* ⊂ *or* ⊄)

(14) $\frac{5}{8}$ ☐ 0.5734 (< *or* > *or* = *or* ≤)

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2 Complete each of the following :

(15) In the opposite figure :

[a] MA = ... = ...

[b] The longest chord in the circle is ....
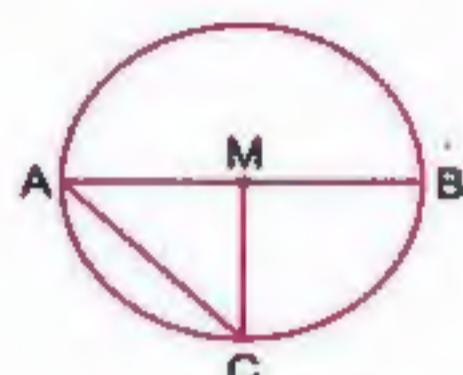
(16) $\frac{4}{12} + \frac{6}{12}$ = ...

(17) The probability of the sure event = ...

(18) If $\frac{x}{8} = \frac{15}{24}$, then x = ...

(19) 2.4 decimetre = ... cm.

(20) X ∩ Y = ...

(21) 65.384 — .... = 65

(22) $\frac{3}{25}$ + ... = $\frac{25}{3}$

3 Answer the following :

(23) Draw the triangle ABC where

AB = 4 cm. , BC = 6 cm. and CA = 8 cm.

, then draw a circle its centre is B and its radius length is 4 cm.

(24) From the table , find the probability that a pupil plays basketball :

| Game	Football	Basketball	Handball
Number of pupils	50	40	10

(25) Arrange in a descending order :

$$5\frac{1}{2} , 6\frac{1}{4} , 5\frac{3}{4} \text{ and } 5\frac{2}{5}$$

(26) In the opposite figure :

If ME = 3 cm. ,

then calculate the perimeter

of the square.
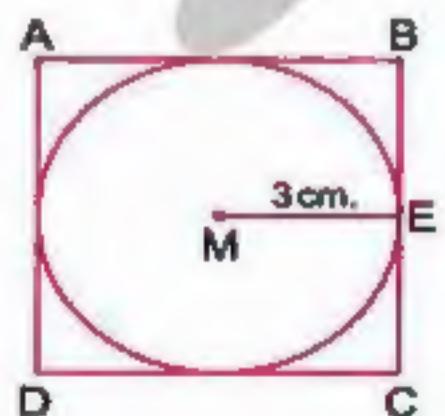
Model 2

Answer the following questions :

1 Choose the correct answer :

(1) 3.36 km. = ·········· m.   (3.36 **or** 33.6 **or** 336 **or** 3360)

(2) $9 \frac{3}{25} \simeq$ ·········· (to the nearest tenth)

(0.9 **or** 9.2 **or** 9.1 **or** 9)

(3) $\frac{5}{6} + 1\frac{1}{6} =$ ··········   ($\frac{5}{7}$ **or** $\frac{2}{6}$ **or** $\frac{3}{7}$ **or** $\frac{7}{6}$)

(4) 0.312 × 100 ☐ 312 ÷ 100   (> **or** < **or** = **or** ≤)

(5) The smallest number from the following is ··········

(0.111 **or** 0.12 **or** 0.123 **or** 1.023)

(6) 10 × 4.72 ☐ 100 × 0.472   (< **or** > **or** = **or** otherwise)

(7) $\frac{3}{5} × 1.6 > 1.6 ×$ ··········   (0.6 **or** 1.6 **or** $\frac{5}{3}$ **or** 0.3)

(8) The shaded part represents ··········

(X∩Y **or** X∪Y **or** X−Y **or** Y−X)

(9) If Y = {2 , 3 , 5} ∩ {1 , 3 , 5} , then {1 , 2 , 3 , 5} ·········· Y

(⊂ **or** ⊄ **or** ∈ **or** ∉)

(10) In the opposite figure :

MN = ·········· cm.

(2 **or** 3 **or** 6 **or** 5)

(11) The length of the diameter of any circle ☐ the length of any chord in it does not passing through the centre

(> **or** < **or** = **or** ≤)

(12) In any triangle the number of its heights = ··········

(1 **or** 2 **or** 3 **or** 4)

(13) In a class there are 40 pupils , 25 of them are boys , the rest are girls , then the probability of the chosen pupil is a girl = ··········

($\frac{3}{8}$ **or** $\frac{5}{8}$ **or** $\frac{3}{5}$ **or** 1)

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(14) When tossing a coin once , then the probability of appearing a tail = ... (0 *or* 1 *or* $\frac{1}{2}$ *or* 2)

2 **Complete each of the following :**

(15) If the probability of a pupil succeed in an exam is $\frac{8}{10}$, then the probability of his fail = ...

(16) If $X \subset Y$, then $X \cap Y$ = ...

(17) In the opposite figure :
The corresponding height
of the base $\overline{BC}$ is ....
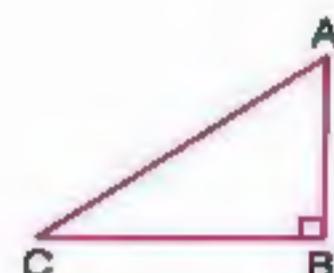
(18) The shaded part
represents ....
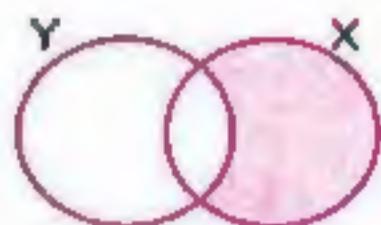
(19) A circle its radius length = 1 cm. ,
then its diameter length = ... cm.

(20) $4.6798 \simeq$ .... (to the nearest thousandth)

(21) $2\frac{1}{4} \times \dfrac{\text{.............}}{\text{.............}} = 1$

(22) $3978 \div$ .... $= 3.978$

3 **Answer the following :**

(23) If $U = \{x : x \text{ is an odd number} < 15\}$, $X = \{1 , 3\}$ and $Y = \{1 , 5 , 9 , 13\}$, draw a Venn diagram that represents the sets U , X and Y , then find $X \cap Y$

(24) Draw a circle M of radius length 2.5 cm. , then draw the diameter $\overline{AB}$ and the chord $\overline{AC}$ of length 3 cm. Join $\overline{BC}$, then measure its length

(25) A box contains identical balls where 5 balls are white , 9 red and 6 black. If one ball is chosen randomly , what is the probability that the chosen ball is white ?

(26) A rectangle , its length is 4.1 cm. and its width is 3.5 cm. , calculate its area.

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Model examination for the special needs students

Answer the following questions :

1 Choose the correct answer :

(1) $\frac{1}{3} \times \frac{3}{4}$ = ... ($\frac{1}{3}$ **or** $\frac{1}{2}$ **or** $\frac{1}{4}$)

(2) If $3 \in \{x , 5\}$, then x = ... (5 **or** 3 **or** 8)

(3) 312 ÷ 10 = ... (3.12 **or** 0.312 **or** 31.2)

(4) The shaded part

is ....

(X∪Y **or** X∩Y **or** X−Y)

(5) A⎯⎯M⎯⎯B $\overline{AB}$ is called a ....
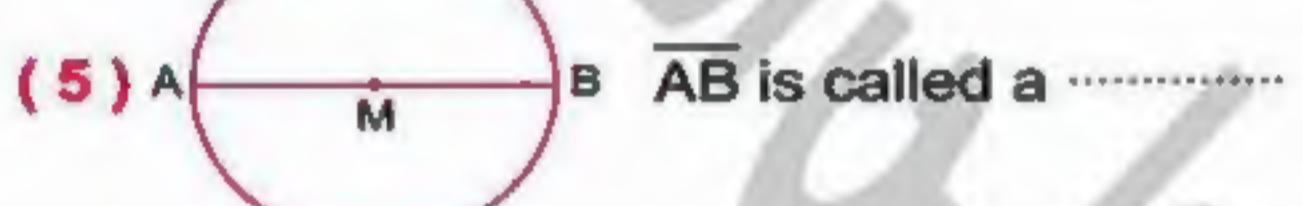
(diameter **or** radius **or** side)

(6) 14.4 × 10 ⬜ 144 (> **or** < **or** =)

(7) In any triangle , there are .... heights. (1 **or** 2 **or** 3)

(8) {5} .... {5 , 8} (⊂ **or** ∉ **or** ⊄)

(9) When tossing a coin once , the probability of appearing a tail = ...

(1 **or** $\frac{1}{2}$ **or** $\frac{1}{4}$)

(10) $\frac{1}{2}$ = ... (5 **or** 0.5 **or** 0.05)

2 Use the following answers to complete the questions below :

$$(\frac{1}{6} , 12.1 , 2 , 4.9 , \{1 , 5\})$$

(1) 4.85 ≃ .... (to the nearest tenth)

(2) When tossing a die once , the probability of appearing the
number 3 = ...

(3) 48.4 ÷ 4 = ...

(4) A circle of diameter length = 4 cm. , then its radius length = ... cm.

(5) If X = {1 , 2 , 5 , 7} , Y = {1 , 5 , 3} , then X ∩ Y = ...

Final Examinations
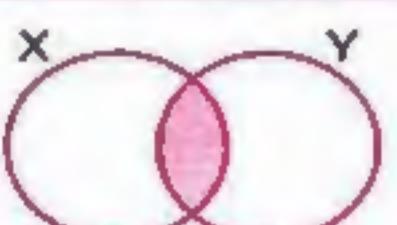
3 Match :

A	B
(1) The shaded part is ··············	$>$
(2) $\frac{1}{2}$ ▭ $\frac{1}{3}$	$\frac{1}{2}$
(3) $4\frac{25}{100} \simeq$ ·············· (to the nearest tenth)	$X \cap Y$
(4) The probability that Samir win a match is $\frac{1}{2}$, then the probability of loss = ··············	altitude
(5) $\overline{AD}$ is called ··············	4.3
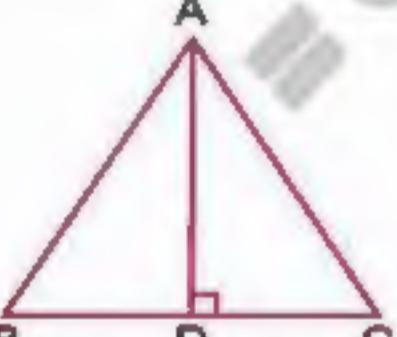
Some Schools' Examinations From Different Governorates

1 Cairo Governorate

East Nasr City Educational Zone
Manaret Heliopolis School

Answer the following questions :

1 Choose the correct answer :

(1) $4.25 \times 100 =$ ....   (425 *or* 42.5 *or* 42500 *or* 4250)

(2) If $4 \in \{2 , x , 5\}$, then $x =$ ....   (2 *or* 4 *or* 5 *or* 6)

(3) The number of altitudes in the right-angled triangle is ....

         (1 *or* 2 *or* 3 *or* 4)

(4) The number $83.7694 = 83.77$ to the nearest ....

         (0.1 *or* 0.01 *or* 0.001 *or* 0.0001)

(5) If $\{7 , 10\} \subset \{10 , x + 4\}$, then $x =$ .... (3 *or* 4 *or* 5 *or* 6)

(6) $\frac{5}{6} + 1\frac{1}{6} =$ ....   ($\frac{5}{7}$ *or* $\frac{2}{6}$ *or* $\frac{3}{7}$ *or* $\frac{7}{6}$)

(7) $\frac{1}{2}$ ☐ $\frac{1}{3}$ (< *or* > *or* = *or* otherwise)

(8) The reciprocal of $3\frac{1}{2}$ ....   ($\frac{7}{2}$ *or* $\frac{2}{7}$ *or* $3\frac{2}{1}$ *or* 8)

(9) If $X \subset Y$, then $X \cap Y =$ ....   (X *or* Y *or* U *or* $\varnothing$)

(10) 7 .... $\{77 , 17\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(11) $\varnothing$ .... $\{A , B\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(12) The longest chord in the circle is called a ....

         (diameter *or* chord *or* radius *or* centre)

(13) $\frac{2}{3}$ of $\frac{9}{10} =$ ....   ($\frac{2}{3}$ *or* $\frac{3}{5}$ *or* $\frac{3}{8}$ *or* $\frac{9}{3}$)

(14) The smallest prime number is ....   (1 *or* 2 *or* 3 *or* 0)

2 Complete :

(15) $71.5 +$ .... $= 7.15$

(16) $76.759 + 59.695 =$ .... $\simeq$ .... (to the nearest $\frac{1}{10}$)

(17) If $\{3 , 4\} \subset \{2 , 3 , a - 1\}$, then $a =$ ....

(18) The point of intersection of the three altitudes of the obtuse-angled triangle lies .... the triangle.

(19) If $\frac{3}{8} = \frac{a}{24}$, then a = ⋯⋯⋯⋯

(20) The line that joins between the centre of the circle and any point on the circle is called ⋯⋯⋯⋯

(21) The probability of the impossible event is ⋯⋯⋯⋯

(22) 3 days = ⋯⋯⋯⋯ hours.

3 **Answer the following :**

(23) A box contains 5 red balls , 8 black balls and 7 white balls , one of them is dawn randomly , find the probability of drawing a ball which is :

[a] Black = ⋯⋯⋯⋯   [b] Green = ⋯⋯⋯⋯

[c] Red or black = ⋯⋯⋯⋯   [d] Not red = ⋯⋯⋯⋯

(24) From the opposite Venn diagram , find :

[a] X ∩ Y = ⋯⋯⋯⋯   [b] X ∪ Y = ⋯⋯⋯⋯

[c] X − Y = ⋯⋯⋯⋯   [d] Ȳ = ⋯⋯⋯⋯

(25) Find :

[a] 6188 ÷ 221 = ⋯⋯⋯⋯   [b] 2.1 × 0.34 = ⋯⋯⋯⋯

(26) Draw the triangle ABC in which
AB = 7 cm. and BC = AC = 6 cm.
, then draw $\overline{CD} \perp \overline{AB}$
, then find its length.

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2 **Cairo Governorate**
   Rod El-Faraq Educational Zone
   St. Mary's School

Answer the following questions :

1 **Choose the correct answer :**

(1) If $6 \in \{3 , 5 , 2x\}$, then $x = $ ⋯⋯⋯⋯   (2 **or** 3 **or** 4 **or** 5)

(2) $\{7 , 8\}$ ⋯⋯⋯⋯ $\{5 , 7 , 10\}$ (∈ **or** ⊂ **or** ∉ **or** ⊄)

(3) In any triangle , the number of its heights = ⋯⋯⋯⋯

   (1 **or** 2 **or** 3 **or** 4)

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(4) Any chord passing through the centre of a circle is called ....

(a diameter   *or*   a radius   *or*   a chord   *or*   otherwise)

(5) $\{52\}$ .... $\{5 , 2\}$ ($\in$ *or* $\subset$ *or* $\notin$ *or* $\not\subset$)

(6) $2 \frac{1}{3} + \frac{5}{3} = $ ....   ($\frac{7}{5}$ *or* $\frac{5}{7}$ *or* $\frac{3}{7}$ *or* $\frac{5}{2}$)

(7) $9 \frac{3}{25} \simeq$ .... (to the nearest tenth) (0.9 *or* 9.2 *or* 9.11 *or* 9.1)

(8) The shaded part in the opposite figure represents ....
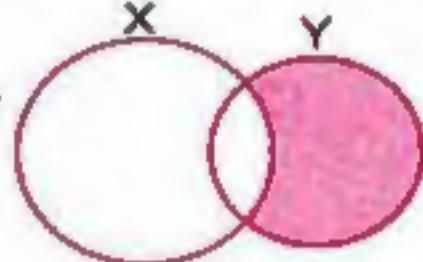
(X − Y   *or*   Y − X   *or*   X ∪ X   *or*   X ∩ Y)

(9) $4 \frac{1}{8} \times 2 \frac{2}{3} = $ ....   (1 *or* 10 *or* 11 *or* 111)

(10) $\frac{5}{8}$ ☐ 0.5734   (> *or* = *or* < *or* ≤)

(11) 55.241×100 ☐ 552.41×10 (> *or* = *or* < *or* otherwise)

(12) $\left(2 \frac{1}{2} + 7 \frac{1}{2}\right) \div \frac{1}{5} = $ ....   (2 *or* 5 *or* 10 *or* 50)

2 **Complete the following :**

(13) If $X \subset Y$, then $X \cap Y = $ ....

(14) $\{2 , 3 , 5\} \cap \{1 , 3 , 5\} = $ ....

(15) $397.8 + 23.4 = $ ....

(16) $\frac{3}{25} + 0.012 = $ ....

(17) If the probability of a pupil succeed in an exam is $\frac{8}{10}$, then the probability of his fail is ....

(18) The altitudes in obtuse-angled triangle intersect at the point that ....

(19) $(8.3 − 2.14) \times 100 = $ ....

(20) If $\{4 , a , 7\} = \{b , 5 , 7\}$, then a = ... and b = ...

(21) $1.775 \times 0.15 \simeq$ .... (to the nearest hundredth)

(22) In the opposite figure :

The length of $\overline{MN} = $ ....

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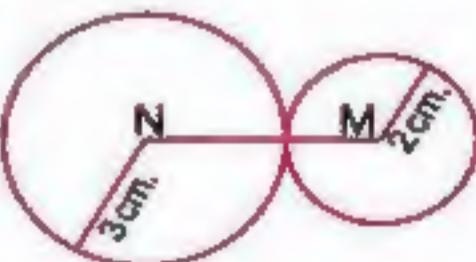
3 Answer the following :

(23) A bag contains 4 white balls , 5 red balls and 6 black balls.
All balls are identical and equal in size. If a ball is drawn randomly.
What is the probability that the drawn ball is :

[a] Red ? ·············   [b] White or black ? ·············

(24) If the price of one metre of cloth is L.E. 6.45
What is the cost of 2.4 metres of cloth ?

···

(25) If U = {1 , 2 , 3 , 4 , 5 , 7 , 9}
, X = {1 , 2 , 3 , 4} and Y = {3 , 4 , 7 , 9}
Draw a Venn diagram that represents
the sets U , X and Y

(26) Draw the △ ABC where AB = 4 cm.
, BC = 5 cm. and CA = 6 cm.
, then draw its altitudes.
What is the type of △ ABC according
to its side lengths ?

3 **Cairo Governorate**   El-Matarya Educational Zone
                                    Gaber Al-Ansary Language School

Answer the following questions :

1 Complete the following :

(1) 36.274 + 33.28 = ············· ≃ ············· (to the nearest $\frac{1}{100}$)

(2) $\frac{1}{2}$ + $\frac{1}{8}$ = ·············

(3) 2 600 gm. ≃ ············· kg. (to the nearest kg.)

(4) {3 , 4 , 5} ∪ {1 , 4 , 5} = ·············

(5) If {2 , 5 , 7} = {5 , x , 2} , then x = ·············

(6) The longest chord in the circle is called ··········

(7) ABC is an equilateral triangle of side length 4.1 cm.
, then its perimeter = ·········· cm.

(8) The probability of the impossible event is ···········

② Choose the correct answer :

(9) The right-angled triangle has ············ altitudes.(0 or 1 or 2 or 3)

(10) The length of the diameter = ·········· ($\frac{1}{2} \times r$ or r or $2 \times r$ or $3 \times r$)

(11) If $X \subset Y$, then $X \cap Y$ = ········· (X or Y or U or $\acute{X}$)

(12) If U = $\{2 , 3 , 4 , 5 , 6 , 7\}$, then $\varnothing$ ·········· U
($\notin$ or $\in$ or $\not\subset$ or $\subset$)

(13) 3 ··········· the set of odd numbers.
($\notin$ or $\in$ or $\not\subset$ or $\subset$)

(14) The set of odd numbers is ············ set.
(a finite or an infinite or an empty)

(15) $\{3 , 4\}$ ············ $\{3 , 4 , 5 , 2\}$
($\notin$ or $\in$ or $\not\subset$ or $\subset$)

(16) $\frac{1}{2} \times 4$ = ···········
(2 or 4 or 3 or 6)

(17) The quotient of dividing 2.25 ÷ 1.5 = ···········
(1.5 or 15 or 0.15 or 500)

(18) $\frac{1}{2}$ ☐ $\frac{3}{4}$
(< or > or $\geq$ or =)

(19) 327 ÷ 24 = 3.27 ÷ ···········
(2.4 or 0.24 or 240 or 2400)

(20) 7.64 × 0.93 $\simeq$ ············ (to the nearest thousandth)
(7.1052 or 710.52 or 7.105 or 7.106)

(21) 54.593 $\simeq$ 54.6 to the nearest ···········
($\frac{1}{10000}$ or $\frac{1}{10}$ or $\frac{1}{100}$ or $\frac{1}{1000}$)

(22) 325.4 ÷ 10 ☐ 3254 ÷ 100
(< or > or =)

③ Answer the following :

(23) A box contains 6 yellow balls , 3 blue balls and 3 red balls. If one ball
is drawn randomly , find the probability that the drawn ball is :

[a] Yellow = ············   [b] Not blue = ···········

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(24) By using the opposite Venn diagram , find :

[a] $X \cup Y =$ ············

[b] $X \cap Y =$ ············

[c] $X - Y =$ ··········

[d] $\acute{Y} =$ ··········
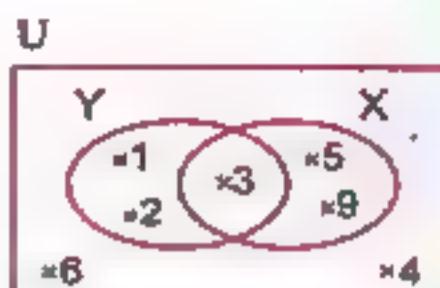
(25) Draw $\triangle$ ABC where AB = 6 cm.

, AC = BC = 5 cm.

, then draw $\overline{CD} \perp \overline{AB}$

(26) Find with steps :

[a] $53.55 + 3.15 =$ ·········· [b] $2\frac{3}{4} + 1\frac{3}{8} =$ ··········

④ Cairo Governorate — Dar El-Salam and El-Basateen Educational Zone — Mathematics Supervision — القاهرة

Answer the following questions :

① Complete the following :

(1) $\frac{3}{7} \times$ ············ $= 1$

(2) $\{5 , 6\} \cap \{4 , 5\} =$ ···········

(3) $84.61 + 23.473 =$ ··········· $\simeq$ ··········· (to the nearest 2 decimal places)

(4) If $\frac{x}{8} = \frac{15}{24}$, then $x =$ ···········

(5) If $X \subset Y$, then $X \cap Y =$ ···········

(6) The longest chord in the circle is called ···········

(7) The number of elements of the null set = ···········

(8) The altitudes of the right-angled triangle intersect at one point located at ···········

(9) The probability of the certain event is ···········

(10) The area of the rectangle of 15.5 metres length and 5.5 metres width is ···········

② Choose the correct answer :

(11) If $\{4 , 8\} = \{1 + y , 4\}$, then y = ············ (3 **or** 4 **or** 6 **or** 7)

(12) The number of altitudes of any triangle = ···········

(1 **or** 2 **or** 3 **or** 4)

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(13) 10×4.72 ☐ 100×0.472 (> **or** < **or** = **or** otherwise)

(14) $\emptyset$ ·············· $\{3 , 5\}$ ($\notin$ **or** $\in$ **or** $\subset$ **or** $\not\subset$)

(15) ABC is an equilateral triangle of side length 4.5 cm.

, then its perimeter = ············ cm.   (12 **or** 13.5 **or** 15 **or** 9)

(16) The smallest number from the following is ············

(0.111 **or** 0.12 **or** 0.123 **or** 1.023)

(17) When tossing a coin once , then the probability of appearing

a tail = ············   (0 **or** 1 **or** $\frac{1}{2}$ **or** 2)

(18) $\{1 , 2\} \cup \{2 , 3\} =$ ············ ($\{2\}$ **or** $\{1 , 3\}$ **or** $\{1 , 2 , 3\}$ **or** $\emptyset$)

3 Answer the following :

(19) Arrange in a descending order : $\frac{1}{4}$, 0.8 , 0.4 and $\frac{1}{2}$

The order is : ············ , ············ , ············ and ············

(20) $5 \frac{1}{3} \times 9 =$ ············   (21) $2.5 \times 4.42 =$ ············

(22) $25.25 + 0.25 =$ ············   (23) $\{2 , 5 , 8\} - \{3 , 5 , 7\} =$ ············

(24) Draw the equilateral triangle ABC

whose side length is 6 cm.

, then draw the three altitudes

of this triangle.

(25) If the universal set U = $\{x : x$ is an odd number less than 15$\}$,

X = $\{1 , 3 , 5\}$ and Y = $\{1 , 5 , 9 , 13\}$

Draw a Venn diagram which represents the sets U , X and Y ,

then find : $X \cap Y$, $X - Y$ and $\acute{Y}$

(26) As thrown a fair die once , calculate the probability of :

[a] Appearing a number greater than 6

[b] Appearing an even number

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Maths

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Final Examinations

5 | **Giza Governorate**   El-Dekki Educational Directorate
Talae Al-Mustakbal Language School

Answer the following questions :

1. **Choose the correct answer :**

(1) $5.035 = $ .... (to the nearest $\frac{1}{100}$) (5 **or** 500 **or** 5.04 **or** 5.03)

(2) If $X \subset Y$, then $X \cap Y = $ .... (X **or** Y **or** $\varnothing$)

(3) The probability of impossible event = ... (0 **or** 1 **or** $\frac{1}{2}$ **or** $\varnothing$)

(4) The set of odd numbers is .... set.

(a finite **or** an empty **or** an infinite)

(5) $32.5 \div 100 = $ .... (0.32 **or** 0.325 **or** 3250 **or** 325.2)

(6) The number of subsets of the set $\{a , b\}$ is ....

(3 **or** 4 **or** 5 **or** 2)

(7) $327.5 \times 100 = $ .... (3276 **or** 32750 **or** 327500)

(8) $\frac{2}{4}$ ☐ $\frac{1}{2}$ (> **or** < **or** = **or** ≠)

(9) The radius length of the circle = ... the diameter length.

($\frac{1}{2}$ **or** $\frac{1}{4}$ **or** 2)

(10) The probability of sure event = ... (1 **or** 0 **or** 10 **or** $\varnothing$)

(11) The probability of getting an odd number when rolling a die

once = ... ($\frac{1}{2}$ **or** $\frac{1}{3}$ **or** 2 **or** 0)

(12) The length of any chord ☐ the length of the diameter in the same

circle. (< **or** > **or** ≤ **or** =)

(13) $\varnothing$ .... $\{0\}$ ($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(14) If $\{5 , 7\} = \{x + 2 , 5\}$, then $x = $ .... (2 **or** 5 **or** 7 **or** 3)

2 **Complete the following :**

(15) If $X \cap Y = \varnothing$, then X and Y are .... sets.

(16) $25.71 + 3.5 = $ .... $\cong$ .... (to the nearest $\frac{1}{10}$)

(17) $\frac{2}{5} + \frac{7}{5} = $ ....

(18) $1\frac{2}{3} \times \frac{3}{7} = $ ....

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(19) In the opposite figure :

$\overline{MX}$ is called ....

(20) $22.5 +$ .... $= 0.225$

(21) 36 days $\simeq$ .... weeks (to the nearest week)

(22) The measure of the right angle = ... °
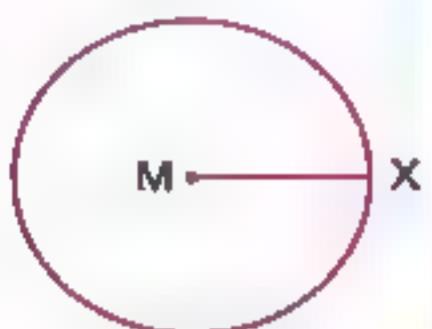
3 Answer the following :

(23) $8636 \div 254 = $ .... (with steps)

(24) Arrange in an ascending order :

$$\frac{1}{2} \ , \ 3\frac{1}{4} \ , \ 7\frac{1}{8} \ \text{and} \ 0.2$$

The order is : .... , ... , ... and ....

(25) A box contains 5 red balls , 3 blue balls and 2 black balls , what's the probability of getting :

[a] Red ball ? ....

[b] Yellow ball ? ....

[c] Black or red ball ? ....

[d] Blue ball ? ....

(26) Using your compasses and ruler
to draw △ ABC where AB = 7 cm. and
BC = AC = 5 cm. , then draw $\overline{CD} \perp \overline{AB}$,
find the length of $\overline{CD}$

6 **Giza Governorate**

El-Haram Educational Directorate
Elwy Language Schools

Answer the following questions :

1 Choose the correct answer :

(1) If $\frac{1}{2} = \frac{x}{8}$, then $x = $ .... (1 or 3 or 4 or 5)

(2) The decimal form of the fraction $\frac{13}{20}$ is ....

(0.13 or 0.65 or 6.5 or 0.065)

(3) In △ ABC , ...
is the corresponding
base to the altitude $\overline{CD}$

($\overline{AC}$ or $\overline{BC}$ or $\overline{AB}$ or $\overline{BD}$)

Final Examinations
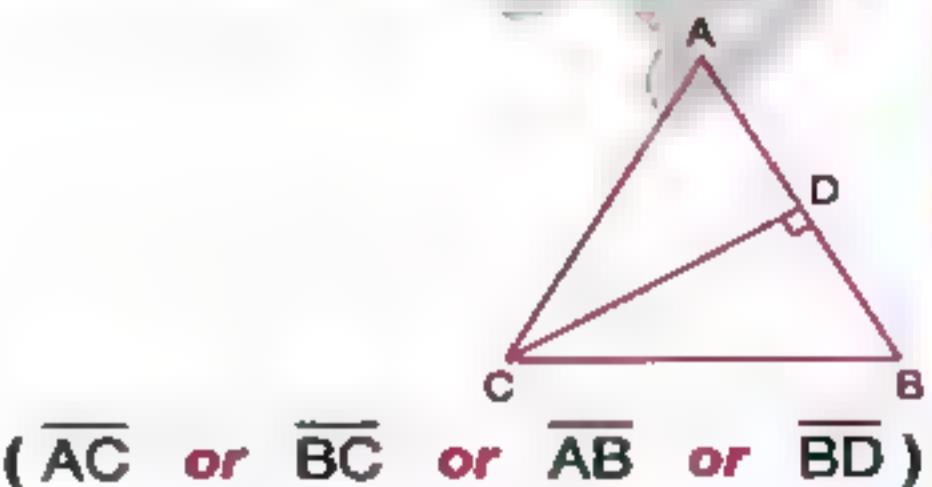
(4) In a square , if its side length = 3.5 cm. , then its area = ... cm²

(14   or   122.5   or   12.25   or   7)

(5) If $X \subset Y$, then $X \cap Y$ = ...   (X   or   Y   or $X \cup Y$ or $X - Y$)

(6) 78.95 + 59.379 = ... (to the nearest $\frac{1}{100}$)

(67.274   or   138.3   or   138.32   or   138.33)

(7) 51 days ≃ .... weeks (to the nearest week) (5   or   6   or   7   or   8)

(8) If $\{4 , 7\} = \{7 , x - 1\}$, then x = ...   (3   or   4   or   5   or   6)

(9) 987.65 cm. ≃ .... metres.   (98765   or   99   or   98   or   10)

(10) $2\frac{1}{4} + 3\frac{3}{8}$ = ...   ($1\frac{1}{2}$ or $\frac{2}{3}$ or $\frac{243}{32}$ or $\frac{3}{32}$)

(11) $\frac{1}{2}$ hour ≃ .... minutes.   (15   or   30   or   45   or   60)

(12) $1\frac{2}{3} \times 1\frac{1}{5}$ = ...   ($2\frac{3}{8}$ or   2   or $1\frac{7}{18}$ or $\frac{13}{15}$)

(13) A chord which passes through the centre of a circle is called a ....

(radius   or   diameter   or   tangent   or   side)

(14) The smallest fraction of the following is .... ($\frac{1}{3}$ or $\frac{2}{5}$ or $\frac{5}{8}$ or $\frac{2}{9}$)

2 **Complete each of the following :**

(15) The probability of an impossible event = ...

(16) In an equilateral triangle , if its side length is 7.25 cm. , then its perimeter = ... cm.

(17) 859.7 + 1000 = ...

(18) $\{2 , 3 , 5\} \cap \{23 , 35\}$ = ...

(19) $\{1 , 4 , 7\} \cap \{4 , 5\}$ = ...

(20) The number of altitudes of any triangle is ....

(21) The sum of the measures of the interior angles of any triangle = ...°

(22) $6\frac{1}{4}$ km. = ... metres.

3 **Answer the following :**

(23) From the opposite figure , find :

[a] A – B = ...

[b] $\hat{A}$ = ...

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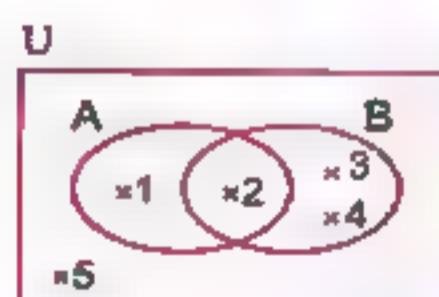
(24) Draw a circle M of radius length 4 cm.

, draw the diameter $\overline{AB}$

, the chord $\overline{AC}$ of length 5 cm.

, and the chord $\overline{BC}$

, then find by measuring :

[a] The length of $\overline{BC}$ = ··············

[b] m $(\angle C)$ = ·············· °

(25) A box contains 6 white balls , 9 red balls and 4 yellow balls , all of them are equal in size. One ball is drawn randomly from this box. Find the probability of getting :

[a] White ball = ··············

[b] Ball which is not yellow = ··············

(26) If the price of one metre of cloth is L.E. 39.8
What is the price of 8.5 metres to the nearest L.E. ?

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⑦ Alexandria Governorate West Educational Zone
Maths Supervision

Answer the following questions :

1 Choose the correct answer :

(1) $\frac{3}{4}$ of a day = ·············· hours.   (24 *or* 30 *or* 18 *or* 12)

(2) 5 ·············· {8 ,6} ∩ {3 ,6 ,1 ,5}   (∈ *or* ∉ *or* ⊂ *or* ⊄)

(3) ∅ ·············· {2 ,6 ,1 ,5}   (∈ *or* ∉ *or* ⊂ *or* ⊄)

(4) The length of the longest chord in the circle is 6 cm. , then the length of the radius of this circle = ·············· cm.   (6 *or* 3 *or* 4.5 *or* 12)

64

(5) 4.75 km. = ············· m.   (4.75 **or** 47.5 **or** 475 **or** 4750)

(6) When tossing a coin once , then the probability of appearing

a tail = ·············   (0 **or** 1 **or** $\frac{1}{2}$ **or** 2)

(7) The right-angled triangle has ············· height(s).

(1 **or** 3 **or** 4 **or** 2)

(8) 36.762 ≃ ············· (to the nearest hundredth)

(36.762 **or** 36.8 **or** 36.76 **or** 36.76)

(9) The shaded part in the opposite figure represents ·············

(X ∩ Y **or** X − Y **or** X ∪ Y **or** Y − X)

(10) 4.238 × 100 [ ] 420.38 × 10   (< **or** > **or** =)

(11) The probability of the certain event = ············· (0 **or** 1 **or** $\frac{1}{2}$ **or** Ø)

(12) If A ⊂ B , then A ∩ B = ·············   (A **or** B **or** Ø **or** Á)

(13) If $\frac{2}{3} = \frac{a}{12}$, then a = ·············   (4 **or** 3 **or** 12 **or** 8)

(14) 4 $\frac{1}{2}$ [ ] 4.51   (< **or** > **or** =)

2 Complete each of the following :

(15) All the radii of the circle are ·············

(16) If {1 , x + 3} = {9 , 1} , then x = ·············

(17) The altitudes of the obtuse-angled triangle intersect at one point which lies ············· the triangle.

(18) {2 , 6 , 1 , 5} − {3 , 6 , 1 , 5} = ·············

(19) 38.76 + 25.38 ≃ ·············   (20) 896.42 + 100 = ·············

(21) 0.675 × 2.3 = ·············   (22) 12 $\frac{1}{2}$ + 6 $\frac{1}{4}$ = ·············

3 Answer the following :

(23) By using the opposite Venn diagram , find :

[a] A ∩ B = ·············   [b] A ∪ B = ·············

[c] A − B = ·············   [d] Á = ·············

المعاصر رياضيات (Worksheets & Examinations) / ٥ ب / ترم ١ (م ٦٠)   **65**
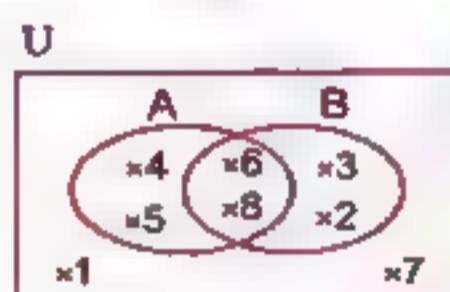
(24) A box contains 5 white balls , 2 blue balls and 4 red balls , all of balls are equal in size, one ball is drawn ranbomly , find the probability that the drawn ball is :

[a] White = ··············

[b] Not green = ·· ······ ··

(25) Complete using the opposite figure :

[a] $\overline{AB}$ is called ·· ····· ·· ··

[b] $\overline{AC}$ is called ·· ····· ······
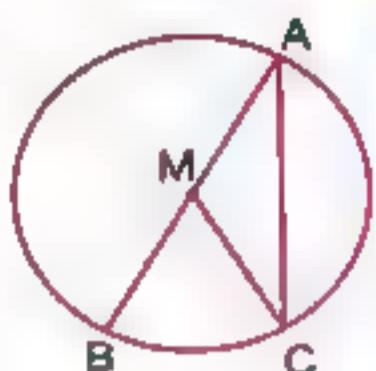
(26) Draw the triangle ABC in which

AB = 6 cm. , BC = 8 cm.

and AC = 10 cm.

[a] Find by measuring m ($\angle$ B)

[b] What is the type of Δ ABC according to its angles ?

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(8) Alexandria Governorate — Al-Agamy Educational Zone / Maths Supervision

Answer the following questions :

Choose the correct answer :

(1) (72.12 + 12.7) + 100 = ·· ·········· ·· (0.8419 *or* 0.8482 *or* 84.82)

(2) $\frac{1}{2} + \frac{7}{4}$ = ····· ·· ····· (in the simplest form) ($\frac{7}{8}$ *or* $\frac{4}{14}$ *or* $\frac{2}{7}$)

(3) 8.657 m. = ·············· cm. (865.7 *or* 8657 *or* 866)

(4) 3721 + 1000 ☐ 0.3721 × 100 (< *or* > *or* =)

(5) 33.51 kg. = ············· gm. (3351 *or* 33510 *or* 335100)

(6) Ø ·············· {0} (∈ *or* ∉ *or* ⊄ *or* ⊂)

(7) If {3 , 5 , 9} = {5 , x + 1 , 3} , then x = ·············· (9 *or* 8 *or* 4 *or* 16)

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Maths

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Final Examinations

(8) In a triangle ABC , if m (∠ A) = 50° and m (∠ C) = 60° , then the triangle is ············-angled triangle.

(an acute   *or*   a right   *or*   an obtuse)

(9) 35 ··········· the set of digits of number 3500   (∈ *or* ∉ *or* ⊄ *or* ⊂)

(10) If the length of the longest chord of the circle is 13 cm. , then the length of any radius = ············ cm.   (26 *or* 6 *or* 6.5 *or* 11)

(11) {12} − {12 , 14} = ·········   (12 *or* {14} *or* ∅ *or* {0})

(12) The number of the altitudes of the triangle is ············

(4 *or* 2 *or* 3 *or* 1)

(13) 15 + 4 ≃ ·········· (to the nearest tenth) (3.75 *or* 3.8 *or* 3.7 *or* 4)

(14) 2 $\frac{4}{5}$ ☐ 2.16   (< *or* > *or* =)

② **Complete the following :**

(15) The shaded part in the opposite figure represents ····························· of two sets.

(16) When tossing a die once the probability of appearing a prime number is ·········· .

(17) A square of side length 6.5 cm. , its area is ··········· cm²

(18) 240 months = ············· years.

(19) The altitudes of the acute-angled triangle intersect at one point ··········· the triangle.

(20) {2 , 12 , 7 , 10} ∩ {5 , 4 , 12 , 10} = ············

(21) $\frac{12}{9}$ + 1 $\frac{3}{27}$ = ·············· (in the simplest form)

(22) In the opposite figure :

$\overline{AB}$ is called ················ of the circle.
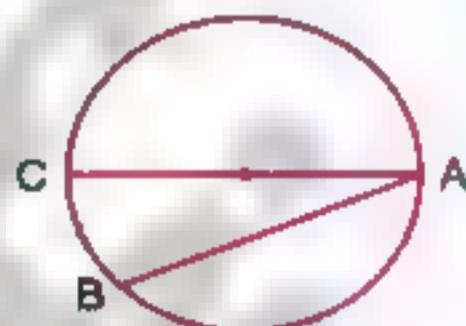
③ **Answer the following :**

(23) If U = {0 , 2 , 4 , 6 , 8 , 10}

, X = {2 , 6 , 8} and Y = {6 , 10}

, draw a Venn diagram that represents the sets U , X and Y

, then find X ∩ Y , X and Y

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(24) Arrange in a descending order : 0.225 , $\frac{3}{8}$, $\frac{3}{4}$ and 0.45

....

(25) In a school, there are 250 girls and 350 boys, a student is chosen randomly, find :

[a] The probability that the chosen student is a boy = ...

[b] The probability that the chosen student is a girl = ...

(26) Draw a triangle ABC where

AB = 6 cm. and BC = AC = 5 cm.

⑨ El-Kalyoubia Governorate
Banha Educational Zone
Maths Supervision

Answer the following questions :

🅰 **Choose the correct answer from those given :**

(1) 3 .... {3 , 13 , 23 , 33}   ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(2) 3.75 × 1000 = ...   (0.375 or 0.0375 or 3750 or 37.5)

(3) $\frac{1}{3} \times \frac{3}{4}$ = ...   ($\frac{1}{3}$ or $\frac{3}{4}$ or $\frac{1}{2}$ or 0.25)

(4) The perimeter of the equilateral triangle which its side length

is 3.2 cm. = ... cm.   (9 or 9.2 or 9.6 or 9.4)

(5) 43 days ≃ .... weeks (to the nearest week) (4 or 5 or 6 or 7)

(6) If $\frac{a}{3} = \frac{5}{15}$, then a = ...   (4 or 5 or 1 or 2)

(7) 14.4 × 10 ☐ 144   (> or < or = or otherwise)

(8) ∅ .... {5 , 6}   ($\not\subset$ or $\subset$ or $\in$ or $\notin$)

(9) 31.295 + 21.61 ≃ .... (to the nearest $\frac{1}{100}$)

(52.905 or 52.90 or 52.91 or 52.92)

Final Examinations

(10) $\{1 , 3 , 5\} \cap \{2 , 4 , 6\} = $ ....

($\{1 , 2\}$ **or** $\varnothing$ **or** $\{4 , 6\}$ **or** $\{2 , 4 , 6\}$)

(11) $\frac{7}{9} + 1\frac{1}{9} = $ ....

($\frac{8}{9}$ **or** $\frac{10}{9}$ **or** $\frac{7}{10}$ **or** $\frac{9}{10}$)

(12) If $5 \in \{4 + x , 3\}$, then $x = $ .... (1 **or** 2 **or** 3 **or** 4)

(13) The number of the altitudes in any triangle = ...

(1 **or** 2 **or** 3 **or** 4)

(14) If the length of the radius of a circle is 3 cm. , then the length of its diameter = ... cm. (3 **or** 6 **or** 9 **or** 12)

2 Complete the following :

(15) The set of the digits of the number 7353 is ....

(16) $2.64 \times 0.2 = $ ....

(17) As throwing a fair die once , then the probability of appearing the number 5 is ....

(18) 3.002 kg. = ... gm.

(19) $3\frac{1}{8} \simeq $ .... $\left(\text{to the nearest } \frac{1}{10}\right)$

(20) $\frac{14}{5} = \frac{............}{10}$

3 Answer the following :

(21) By using the opposite Venn diagram , complete :

[a] U = ...

[b] $X\grave{}$ = ...

(22) In the opposite figure :

M and N are two circles.

Then the length $\overline{MN} = $ .... cm.
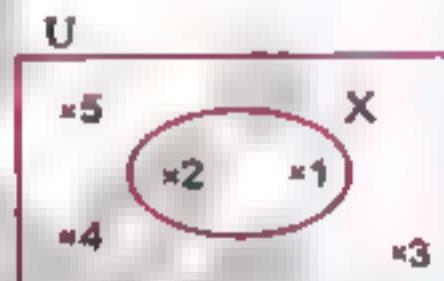
(23) Write down all the subsets for the set A = $\{3 , 7\}$

....
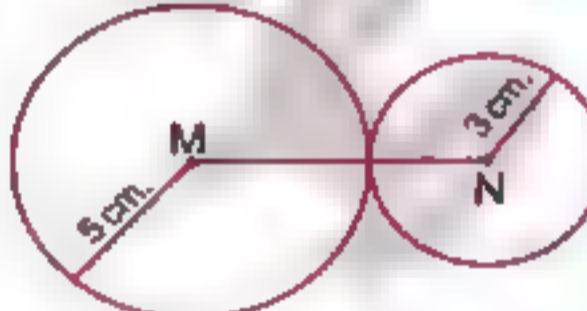
(24) If X = $\{3 , 4 , 5\}$ and Y = $\{5 , 6\}$, then find : X $\cup$ Y = ...

and X – Y = ...

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(25) Complete :

The probability of pupil' success in an exam is $\frac{7}{10}$, then the probability of his failure is ....

(26) Draw the triangle ABC in which

AB = BC = CA = 5 cm.

⑩ **El-Sharkia Governorate**

Directorate of Education
Dep. of Governmental Formal School

Answer the following questions :

Choose the correct answer :

(1) 3.75 × 100 = ··········· ..   (0.375 **or** 37.5 **or** 375 **or** 0.0375)

(2) $\frac{1}{2}$ ☐ 0.3   (< **or** > **or** = **or** ≤)

(3) {5} ········· {5 , 8}   (⊂ **or** ⊄ **or** ∈ **or** ∉)

(4) When tossing a coin once , the probability of appearing a tail = ...

(0 **or** 1 **or** 2 , **or** $\frac{1}{2}$)

(5) $\frac{4}{3} \times \frac{3}{4}$ = ···········   (0 **or** 1 **or** 3 **or** 4)

(6) The number of altitudes of any triangle = ············

(1 **or** 2 **or** 3 **or** 4)

(7) {5} − {1 , 5} = · ··········   ({15} **or** {5} **or** {1} **or** ∅)

(8) 3.36 km. = ············· m.   (3.36 **or** 33.6 **or** 336 **or** 3360)

(9) 43 days ≃ ··········· weeks. (to nearest week) (4 **or** 6 **or** 5 **or** 7)

(10) If 3 ∈ {x , 5} , then x = ·············   (3 **or** 4 **or** 5 **or** 6)

(11) Any chord passing through the centre of the circle is called a ....

(diameter **or** radius **or** chord)

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Final Examinations

(12) $48.4 \div 4 = $ ·············   (1.21 **or** 0.121 **or** 12.1 **or** 121)

(13) The shaded part in the opposite figure represents ············
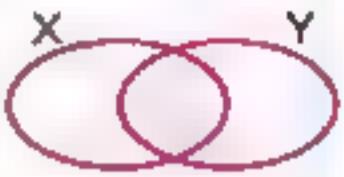
($X \cap Y$ **or** $X \cup Y$ **or** $X - Y$ **or** $Y - X$)

(14) $312 \div 10 = $ ············   (3.12 **or** 0.312 **or** 31.2 **or** 3120)

2 **Complete :**

(15) If $X \subset Y$, then $X \cap Y = $ ··············

(16) The probability of the sure event = ··············

(17) $2.4 \times 0.7 = $ ··············

(18) $4.679 \simeq $ ·············· (to the nearest hundredth)

(19) If $\frac{x}{8} = \frac{15}{24}$, then $x = $ ··············

(20) $\frac{4}{12} \div \frac{5}{12} = $ ··············

(21) A circle of diameter length = 4 cm. , then its radius length = ·············· cm.

(22) If $\{ 1 , a \} = \{ 2 , b \}$, then a = ·············· and b = ··············

3 **Answer the following :**

(23) An owner of packing food factory wanted to divide 5904 kilograms of sugar equally in 492 packs. What's the weight of each pack ?

···

(24) Look at the opposite Venn diagram , then complete :

[a] $X \cup Y = $ ···········

[b] $X \cap Y = $ ···········

[c] $X - Y = $ ···········

[d] $X` = $ ···········
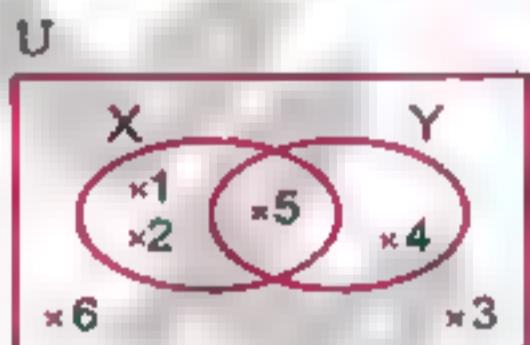
(25) A box contains identical balls where 5 balls are white, 3 red and 7 black, If one ball is chosen randomly, what is the probability that the chosen ball is white ?

···

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(26) Draw a circle M of radius length 3 cm.

And draw the diameter $\overline{AB}$

, then find the length of $\overline{AB}$

AB = ⋯⋯⋯ cm.

11 El-Monofia Governorate

Shiben El-Kom Educational Directorate
Maths Department

Answer the following questions :

1 Choose the correct answer from those between brackets :

(1) The number of months in half of a year = ⋯⋯⋯ (6 *or* 3 *or* 5 *or* 9)

(2) The number of subsets of the set {4 , 5} equals ⋯⋯⋯

(2 *or* 3 *or* 4 *or* 9)

(3) As throwing a fair die once , then the probability of appearing the

number 5 equals ⋯⋯⋯⋯ ($\frac{1}{2}$ *or* $\frac{1}{6}$ *or* $\frac{5}{6}$ *or* $\frac{2}{3}$)

(4) If $X \subset Y$, then $X - Y$ = ⋯⋯⋯ (X *or* Y *or* Ø *or* ∪)

(5) The number 276.5327 approximated to the nearest thousandth = ⋯⋯⋯

(277 *or* 276.533 *or* 276.54 *or* 276.5)

(6) The smallest fraction in the following is ⋯⋯⋯

($\frac{1}{3}$ *or* $\frac{5}{8}$ *or* $\frac{2}{9}$ *or* $\frac{2}{5}$)

(7) If {7 , 10} = {10 , $x + 4$} , then x = ⋯⋯⋯ (3 *or* 4 *or* 5 *or* 6)

(8) {9} ⋯⋯⋯ {99} (∈ *or* ∉ *or* ⊂ *or* ⊄)

(9) If X = {1 , 4 , 5} ∩ {5 , 3 , 7} , then 1 ⋯⋯⋯ X (∈ *or* ∉ *or* ⊂ *or* ⊄)

(10) If {3 , 6} = {1 + x , 3} , then x = ⋯⋯⋯ (2 *or* 3 *or* 4 *or* 5)

(11) To draw a circle of diameter length 12 cm. , then the opening distance
of compasses should be ⋯⋯⋯ cm. (12 *or* 6 *or* 9 *or* 24)

(12) If M is a circle whose diameter length is 8 cm. where MA = 7 cm.
, then the point A is located ⋯⋯⋯ the circle.

(inside *or* outside *or* on *or* otherwise)

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Final Examinations

(13) If $\frac{2}{5} = \frac{a}{15}$, then a = ············ (6 *or* 12 *or* 9 *or* 4)

(14) The quotient of dividing 5.45 ÷ 0.5 = ············
(1.9 *or* 1.09 *or* 10.9 *or* 109)

2 Complete :

(15) 99.995 = ········· (to the nearest hundredth)

(16) 5.4 tons = ············ kg.   (17) $\frac{3}{8} \times \frac{2}{9}$ = ·········

(18) If $X \cap Y = Y$, then ·········· $\subset$ ··········

(19) The number of altitudes of the obtuse-angled triangle is ············

(20) The chord of the circle which passes through its centre is called a ············

(21) 25.25 ÷ 0.25 = ············

(22) 3.75 × 1000 = ············

3 Answer the following :

(23) Arrange the following numbers ascendingly : $\frac{1}{4}$, 0.8 , 0.4 , $\frac{1}{2}$ and $\frac{3}{4}$

(24) Represent the two sets A and B
by a Venn diagram where
A = { 1 , 2 , 3 , 6} and B = {2 , 3} , then find :
[a] A $\cap$ B = ············
[b] A $\cup$ B = ············

(25) Draw △ XYZ which is equilateral
and its side length = 4 cm.
Draw a circle of center X
and radius length 4 cm.

(26) A bag contains 5 red balls, 8 black balls and 7 white balls, all of them
are identical and equal in size. A ball is drawn randomly, calculate the
probability that :
[a] The drawn ball is black = ············
[b] The drawn ball isn't green = ············

73 (Worksheets & Examinations)

(12) | El-Gharbia Governorate | El-Gharbia Educational Directorate Maths Supervision

Answer the following questions :

Choose the correct answer :

(1) 10 halves ☐ 20 quarters. (< *or* > *or* =)

(2) 35.7 ÷ 100 = ………… (0.357 *or* 3570 *or* 357)

(3) The longest chord in the circle is called a ………… (radius *or* diameter *or* centre)

(4) (A ∩ B) ………… A (⊄ *or* ⊂ *or* ∈)

(5) $2\frac{1}{3} \times$ ………… $= 1$ ($\frac{3}{7}$ *or* $\frac{7}{3}$ *or* $2\frac{1}{2}$)

(6) X ∩ X´ = ………… (∅ *or* U *or* X)

(7) 6.25 ÷ 2.5 = 62.5 ÷ ………… (250 *or* 25 *or* 0.25)

(8) 2.5 × 53.8 ☐ 0.25 × 5.38 (< *or* > *or* =)

(9) 24.637 ≃ ………… (to the nearest hundredth) (24.64 *or* 24.63 *or* 24.6)

(10) {5 , 7} − {3 , 5 , 8} = ………… (∅ *or* {5 , 3 , 8} *or* {7})

(11) If A and B are disjoint sets , then A − B = ………… (∅ *or* A *or* B)

(12) The number of altitudes in any triangle is ………… (1 *or* 2 *or* 3)

(13) 538.7 cm. ≃ ………… m. (6 *or* 5.387 *or* 5)

(14) If X ⊂ Y , then X ∪ Y = ………… (X *or* Y *or* ∅)

Complete each of the following :

(15) $3\frac{1}{2} + \frac{7}{12} = $ …………

(16) 3.56 km. = ………… m.

(17) {2 , 4 , 6} ∩ {2 , 3 , 5 , 7} = …………

(18) A circle the length of its radius is 5 cm. , then the length of its diameter is ………… cm.

(19) The probability of the impossible event = …………

(20) The altitudes of any triangle intersect at ………… point(s).

(21) If a ∈ {1 , 3 , 5} ∩ {2 , 3 , 7} , then a = …………

(22) 43.6 ÷ 4 = …………

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3 **Answer the following :**

(23) If the price of one metre of cloth is 27.5 pounds.

What is the price of 3 metres of same kind ?

The price of 3 metres = ... = ... pounds.

(24) From the opposite Venn diagram
, find by listing method :

U

[a] X ∩ Y = ...

[b] X ∪ Y = ...

[c] X − Y = ...

[b] X̄ = ...
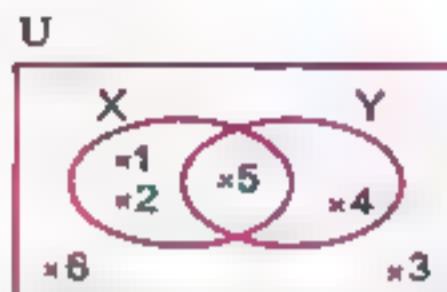
(25) Draw △ ABC in which AC = 5 cm.
, AB = 4 cm. and BC = 3 cm.
, then draw the altitude from B on $\overline{AC}$

(26) As throwing a fair die once , find the probability of :

[a] Appearing a prime number = ...

[b] Appearing a number less than or equal 6 = ...

[c] Appearing an even prime number = ...

[d] Appearing a number not divisible by 3 = ...

---

⑬ El-Dakahlia Governorate

Maths Supervision

Answer the following questions :

Choose the correct answer :

(1) 235 ÷ 15 = 23.5 + ...   (1.5 **or** 0.15 **or** 150)

(2) If $\frac{8}{9} = \frac{a}{18}$, then a = ...   (4 **or** 16 **or** 27)

(3) 50 cm² = ... dm²   (0.05 **or** 50 **or** 0.5)

(4) {3} .... {1 , 2 , 3}   (∈ **or** ⊂ **or** ⊄)

(5) If the probability of pupil's success is $\frac{4}{5}$, then the probability of his failure is ....   (1 **or** 0.2 **or** 0.1)

(6) 39 days = ... weeks.   (5 **or** 6 **or** 7)

(7) $2\frac{1}{2} + \frac{1}{4}$ = ...   (5 **or** 10 **or** 4)

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2 Complete each of the following :

(8) The probability of the sure event is ....

(9) If $X \subset Y$, then $X \cap Y =$ ....

(10) The number of the altitudes of the right-angled triangle is ....

(11) The perimeter of a square $= \frac{1}{5}$ metre , then it's side length = ... cm.

(12) $12.5 \times$ .... $= 1.25$

(13) 15 tenths = ... tens.

3 Choose the correct answer :

(14) $\emptyset \cup X =$ ....   ($\emptyset$ **or** X **or** U)

(15) If $\{3 , x - 1\} = \{3 , 5\}$, then $x =$ ....   (6 **or** 4 **or** 3)

(16) $\frac{8}{9} >$ ....   ($\frac{7}{8}$ **or** $\frac{9}{10}$ **or** $\frac{19}{20}$)

(17) The line segment whose endpoints are the centre of the circle and any point $\in$ the circle is called a ....

           (chord **or** radius **or** diameter)

(18) $\{2 , 1 , 17\}$ .... the set of digits of the number 2117

           ($=$ **or** $\subset$ **or** $\not\subset$)

(19) If $X \subset Y$, then $X - Y =$ ....   (X **or** Y **or** $\emptyset$)

(20) 25×0.1 ☐ $25 + 0.1$ ($=$ **or** $>$ **or** $<$)

4 Answer the following :

(21) From the opposite figure , find by listing method :

[a] $X \cup Y =$ ....   [b] $X \cap Y =$ ....

[c] $X - Y =$ ....   [d] $(X \cup Y)^{`} =$ ....
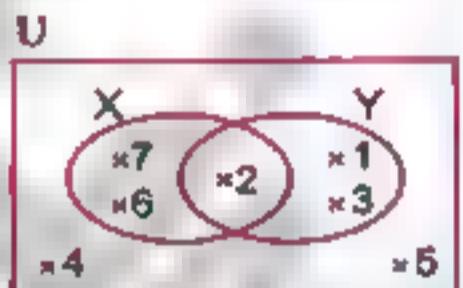
(22) A box contains 3 blue balls , 4 red balls and 5 green balls. All the balls are identical and equal in size , if a ball is drawn randomly , what is the probability that the drawn ball is :

[a] Blue ? ....

[b] Not blue ? ....

[c] Blue or red ? ....

[d] Black ? ....

(23) Find with steps :

     $2.8905 + 1.23 =$ .... (approximated to the nearest tenth)

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Final Examinations

(24) Ahmed bought 35 books, if the price of each book is 7.5 pounds, find the total price of all books to the nearest pound. (show the steps)

....

(25) Draw the equilateral triangle ABC
whose side length = 6 cm. , then :

[a] Draw $\overline{AD} \perp \overline{BC}$

[b] Calculate the perimeter of △ ABC

(14) Ismailia Governorate

Directorate of Education
Directing of Mathematics

Answer the following questions :

Ⓜ Choose the correct answer :

(1) $\frac{4}{7}$ ▢ $\frac{2}{3}$ (< *or* > *or* =)

(2) The probability of certain event = ... ($\frac{1}{2}$ *or* 0 *or* 1 *or* $\frac{1}{4}$)

(3) Any triangle has .... altitudes.   (0 *or* 1 *or* 2 *or* 3)

(4) ∅ .... {5 , 6}   (∈ *or* ∉ *or* ⊂ *or* ⊄)

(5) 8 halves = 20 fifths   (✓ *or* ✗)

(6) If X ⊂ Y , then X ∩ Y = ...   (X *or* Y *or* ∅ *or* ∪)

(7) If {7 , 10} ⊂ {10 , $x + 4$} , then x = ... (3 *or* 4 *or* 6 *or* 10)

(8) If $\frac{6}{8} < \frac{x}{8} < 1$, then x = ... (1 *or* 7 *or* 8 *or* 6)

(9) The smallest fraction of the following is ....

                          ($\frac{1}{2}$ *or* $\frac{1}{3}$ *or* $\frac{1}{4}$ *or* $\frac{1}{5}$)

(10) To draw a circle with diameter 6 cm. , we open the compasses

      .... cm.   (6 *or* 3 *or* 12 *or* 2)

(11) 6.8 kg. = ... gm.   (680 *or* 6080 *or* 7 *or* 6800)

(12) 48.37 ÷ .... = 4.837   (10 *or* 100 *or* 1000 *or* 10000)

(13) $\frac{2}{3}$ + ... = 1   ($\frac{2}{3}$ *or* $\frac{3}{2}$ *or* 1 *or* $\frac{5}{6}$)

(14) If $\frac{3}{6} = \frac{4}{x}$, then x = ...   (3 *or* 27 *or* 8 *or* 6)

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2 **Complete :**

(15) $2.83 \times 1000 = $ ⋯⋯⋯⋯

(16) $6.3729 \simeq $ ⋯⋯⋯⋯ $\left(\text{to the nearest } \dfrac{1}{1000}\right)$

(17) $2.3 \times 0.32 = $ ⋯⋯⋯⋯

(18) $6 \dfrac{3}{8} \simeq $ ⋯⋯⋯⋯ $\left(\text{to the nearest } \dfrac{1}{100}\right)$

(19) If $U = \{0 , 1 , 2 , 3 , 4\}$ and $A = \{1 , 3 , 4\}$, then $\bar{A} = $ ⋯⋯⋯⋯

(20) The reciprocal of $1\dfrac{2}{7}$ is ⋯⋯⋯⋯

(21) The longest chord in a circle is called ⋯⋯⋯⋯

(22) The line segment that joining between the centre of a circle and any point on a circle is called ⋯⋯⋯⋯

3 **Answer the following :**

(23) $1\dfrac{2}{3} \times \dfrac{1}{10} = $ ⋯⋯⋯⋯

(24) Use the opposite Venn diagram to find :

[a] $A \cap B = $ ⋯⋯⋯⋯

[b] $B - A = $ ⋯⋯⋯⋯
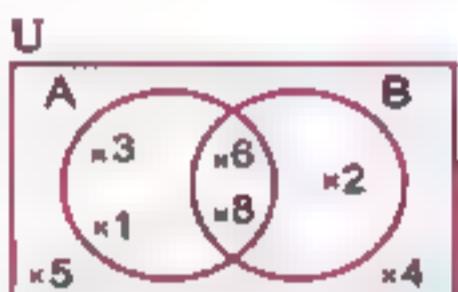
(25) A bag contains 3 white balls , 5 yellow balls and 2 red balls , a ball is drawn randomly , find the probability that the drawn ball is :

[a] White = ⋯⋯⋯⋯   [b] Yellow or red = ⋯⋯⋯⋯

(26) Draw ABC isoscles triangle in which
AB = AC = 5 cm. , BC = 6 cm.
and draw $\overline{AD}$ perpendicular to $\overline{BC}$
, then find by measuring the length of $\overline{AD}$

(15) **Suez Governorate**   South Educational Directorate
Maths Inspection

Answer the following questions :

1 **Choose the correct answer :**

(1) 55.241×100 ☐ 552.41×10 (> *or* = *or* <)

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(2) $3\frac{1}{2} + \frac{7}{12} = $ .... (6 *or* $\frac{49}{24}$ *or* 4)

(3) 3 .... {303.13} ($\in$ *or* $\subset$ *or* $\notin$)

(4) Any triangle has .... altitudes. (1 *or* 3 *or* 2)

(5) The longest chord in a circle is called a ....

(diameter *or* radius *or* chord)

(6) If $\{x + 1 , 5\} = \{6 , 5\}$, then $x = $ .... (6 *or* 1 *or* 5)

(7) $85.67 - 67.5 = $ .... (18.17 *or* 22.2 *or* 22.17)

(8) $276.532 \simeq $ .... (to the nearest hundredth)

(277 *or* 276.53 *or* 276.5)

(9) If $X \subset Y$, then $X \cup Y = $ .... (X *or* Y *or* $\varnothing$)

(10) The number of subsets of $\{4 , 5\}$ equals .... (3 *or* 4 *or* 5)

(11) The probability of the sure event is .... (0 *or* $\frac{1}{2}$ *or* 1)

(12) $225 + 25 = 2.25 + $ .... (0.25 *or* 2.5 *or* 25)

(13) 572.4 cm. $\simeq$ .... metres. (572 *or* 6 *or* 60)

(14) The shaded part of

represents ....

($X \cap Y$ *or* $Y - X$ *or* $X - Y$)

2 **Complete :**

(15) $3.75 \times 1000 = $ ....

(16) If $\triangle ABC$ is equilateral of side length 6 cm. , then its perimeter = ... cm.

(17) $\{3 , 2 , 4\} \cap \{13 , 4 , 20\} = $ ....

(18) If $U = \{1 , 2 , 3 , 4 , 5\}$ and $A = \{2 , 4\}$, then $\acute{A} = $ ....

(19) Half of a year = ... months.

(20) $39.76 \simeq $ .... (to the nearest unit)

(21) If the length of longest chord in the circle is 10 cm. , then its radius length = ... cm.

(22) As tossing a coin once , then the probability of appearing a head is ....

3 **Answer the following :**

(23) Arrange in an ascending order : $3\frac{1}{4}$, 3.3 , 3.125 and $3\frac{1}{2}$

....

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(24) From the opposite figure , find :

    [a] $A \cap B$ = ·········

    [b] $(A - B)^` $ = ···········
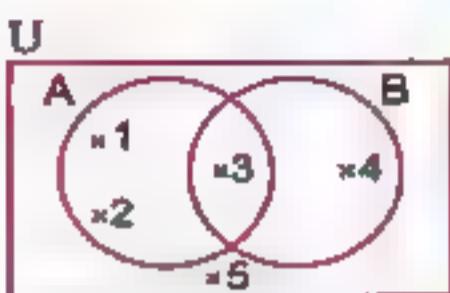
(25) As throwing a fair die once , find the probability of :

    [a] Appearing a number greater than 6 = ··········

    [b] Appearing the number 5 = ···········

(26) Draw △ ABC in which AB = 7 cm.

    , BC = 6 cm. and AC = 5 cm.

---

⑯ Damietta Governorate   Mathematics Inspection

Answer the following questions :

1 Choose the correct answer :

(1) $25.6745 \simeq$ ·············· (to the nearest thousandth)

                (25.674 *or* 25.675 *or* 25.67 *or* 25.68)

(2) 35.2694 pounds = ·············· piastres.

       (0.352694 *or* 3.52694 *or* 35.2694 *or* 3526.94)

(3) The set of prime numbers more than 30 is ··········· set.

        (a finite *or* an infinite *or* an empty *or* otherwise)

(4) Any chord passing through the centre of a circle is called ··············

        (a diameter *or* a radius *or* a chord *or* otherwise)

(5) $2 \frac{5}{7}$ ☐ $2 \frac{3}{5}$ (> *or* = *or* ≥ *or* <)

(6) $4 \frac{1}{8} \times 2 \frac{2}{3}$ = ··············   (1 *or* 10 *or* 11 *or* 111)

(7) If $\frac{x}{8} = \frac{15}{24}$, then x = ··············   (24 *or* 15 *or* 3 *or* 5)

(8) $\frac{1}{8} \div 0.5$ = ··············   (0.025 *or* 0.25 *or* 2.5 *or* 25)

(9) 23.21 ÷ 1000 = ··········· (232.1 *or* 2.321 *or* 0.2321 *or* 0.02321)

(10) $0.3 \times 0.3 \times 0.3$ = ··············   (0.027 *or* 0.27 *or* 2.7 *or* 27)

(11) ∅ ··········· {8 , 7 , 5}   (∈ *or* ∉ *or* ⊂ *or* ⊄)

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(12) $Y = \{2 , 4 , 6\} \cup \{1 , 2 , 3\}$, then 6 .... Y

($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(13) The number of subsets for the set $\{5 , 6\}$ is ....

(1 **or** 2 **or** 3 **or** 4)

(14) If M is a circle whose diameter length is 6 cm. where MA = 5 cm. , then the point A is located .... the circle.

(inside **or** outside **or** on **or** otherwise)

2 Complete the following :

(15) The probability of the sure event = ...

(16) $3 \frac{1}{8} \div 2 \frac{1}{2} = $ ....

(17) $\frac{5}{8} \simeq $ .... (to the nearest hundredth)

(18) The greatest fraction from the following $\frac{1}{4}$, $\frac{1}{5}$ and 0.23 is ....

(19) If $7 \in \{3 , 3 + x\}$, then $x = $ ....

(20) If $U = \{1 , 2 , 5\}$, $X = \{5\}$, then $\acute{X} = $ ....

(21) The number of altitudes of the obtuse angled-triangle = ...

(22) To draw a circle of diameter length 6 cm. , then the opening distance of the compasses = ...

3 Answer the following :

(23) An owner of packing food factories wanted to pack 5405 kilograms of sugar equally in 235 packs. What is the weight of each pack ?

....

(24) Look at the opposite Venn diagram , then find the following :

[a] X − Y = ...

[b] X ∩ Y = ...

(25) A bag contains 5 white balls , 9 red balls and 6 black balls , if one ball is chosen randomly. What is the probability that the chosen ball is :

[a] White ? ....   [b] Red or black ? ....

(26) Draw the triangle XYZ where
XY = XZ = 5 cm. and YZ = 6 cm.
, then draw $\overline{XD} \perp \overline{YZ}$ that intersects $\overline{YZ}$ at D
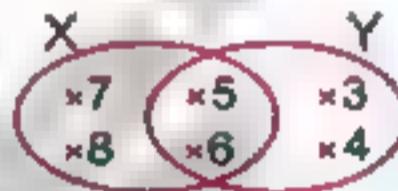
(17) Kafr El-Sheikh Governorate Maths Inspection

Answer the following questions :

1 Complete :

(1) $1.775 \times 0.15 \simeq$ .... (to the nearest hundredth)

(2) The probability of the sure event = ...

(3) If $\frac{2}{3} = \frac{16}{a}$, then a = ...

(4) The number of all the subsets of the set $\{2 , 6\}$ is ....

(5) $5\frac{1}{2} + 3\frac{2}{3} =$ ....

(6) The longest chord in the circle is called ....

(7) If $\{a , 5 , 8\} = \{b , 4 , 8\}$, then $(a + b) =$ ....

(8) If $X = Y$, then $X - Y =$ ....

2 Choose the correct answer :

(9) $4\frac{1}{8} \times 2\frac{2}{3} =$ .... (0 *or* 10 *or* 11 *or* 111)

(10) $\{73\}$ .... $\{7 , 3\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(11) The number of altitudes of any triangle is ....

(0 *or* 1 *or* 2 *or* 3)

(12) In a class there are 40 pupils, 25 of them are boys and the rest is girls.

The probability of choosing a girl = ... ($\frac{3}{8}$ *or* $\frac{5}{8}$ *or* $\frac{3}{5}$ *or* 1)

(13) $155.241 \times 100 \,\boxed{}\, 522.4 \times 10$ (< *or* > *or* = *or* $\leq$)

(14) A circle of radius length 4 cm. , then its diameter length = ... cm.

(1 *or* 2 *or* 4 *or* 8)

(15) If $X = \{2 , 5 , 6\} \cap \{3 , 5\}$, then X .... $\{3 , 5\}$

($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(16) If $\{7 , 10\} \subset \{10 , x + 4 , 5\}$, then $x =$ ....

(10 *or* 7 *or* 5 *or* 3)

(17) 43 days $\simeq$ .... weeks. (to the nearest week)(5 *or* 6 *or* 7 *or* 8)

(18) m .... $\{maths\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

Final Examinations

(19) $4.25 \div$ .... $= 8\frac{1}{2}$ (2 or 12.75 or $\frac{1}{4}$ or 0.5)

(20) 2.4 dm. = ... cm.   (240 or 24 or 0.24 or 0.024)

(21) $37440 \div 234 = $ ....   (16 or 106 or 160 or 1600)

(22) If $6 \in \{3 , 5 , 2x\}$, then $x = $ ....   (2 or 3 or 4 or 5)

B Answer the following :

(23) The area of a rectangle = 10.25 m^2 and its length is 4.1 m.
Find the width and the perimeter of this rectangle.

....

....

(24) Look at the opposite figure , then complete :

[a] $X \cup Y = $ ....
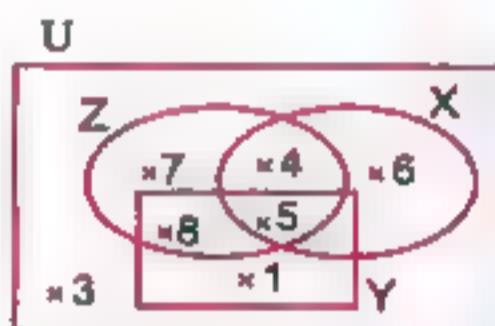
[b] $Z \cap Y = $ ....

[c] $X - Z = $ ....

[d] $(Z \cup X)^` = $ ....

(25) Arrange the following fractions in an ascending order :

$$0.6 \quad , \quad \frac{2}{5} \quad , \quad 0.8 \quad \text{and} \quad \frac{3}{4}$$

The order is : .... , ... , ... and ....

(26) Draw $\triangle$ ABC in which AB = 3 cm.
, BC = 4 cm. and AC = 5 cm.
M is the midpoint of $\overline{AC}$
, then draw a circle M
with radius length 2.5 cm.

....

....

(18) El-Beheira Governorate   Bandr Damnhour Educational Zone
Ismail El-Habrouk G.L.S.

Answer the following questions :

1 Choose the correct answer :

(1) The shaded part of represents ....
($X \cap Y$ or $X \cup Y$ or $X - Y$ or $Y - X$)

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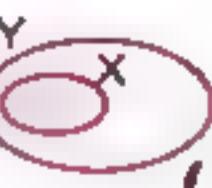
(2) There are .... altitudes in the right-angled triangle.

(0 **or** 1 **or** 2 **or** 3)

(3) $3.75 \times 1000 =$ .... (0.375 **or** 0.0375 **or** 3750 **or** 37.5)

(4) 2.4 dm. = ... cm. (0.24 **or** 24 **or** 240 **or** 2400)

(5) {23} .... {2 , 3} ($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(6) $3\frac{1}{8} \simeq$ .... (to the nearest hundredth)

(3.125 **or** 3.12 **or** 3.13 **or** 3.1)

(7) If {5 , 7} = {7 , $x + 2$} , then $x =$ .... (3 **or** 4 **or** 5 **or** 6)

(8) 24.551×100 ☐ 22.541×10 (> **or** < **or** =)

(9) Any chord passing through the centre of a circle is called a ....

(diameter **or** radius **or** chord)

(10) $4\frac{1}{8} \times 2\frac{2}{3} =$ .... (1 **or** 10 **or** 11 **or** 111)

(11) $0.067 \times 1000 =$ .... (6.7 **or** 67 **or** 0.067 **or** 670)

(12) $1.7 \div 10 =$ .... (17 **or** 0.17 **or** 1.7 **or** 0.017)

(13) $2.125 + 0.25 =$ .... $+ 25$ (212.5 **or** 21.25 **or** 2125 **or** 21250)

(14) The number of subsets of set {5} is .... (0 **or** 1 **or** 2 **or** 3)

2 Complete :

(15) If $X \subset Y$, then $X \cap Y =$ ....

(16) From the opposite figure :

$X - Y =$ ....
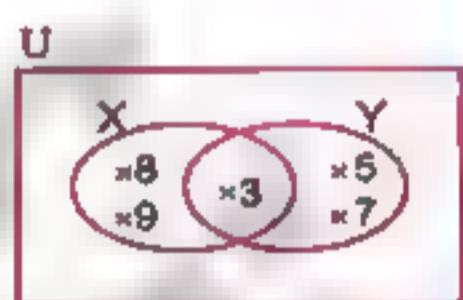
(17) When tossing a coin once , the probability of getting a head = ...

(18) $4.6789 \simeq$ .... (to the nearest thousandth)

(19) From the opposite figure :

$\overline{AD}$ is called ....

(20) If $\frac{4}{8} = \frac{x}{24}$, then $x =$ ....

(21) $\frac{1}{2} + \frac{1}{12} =$ ....

(22) .... $\times \frac{4}{5} = 1$

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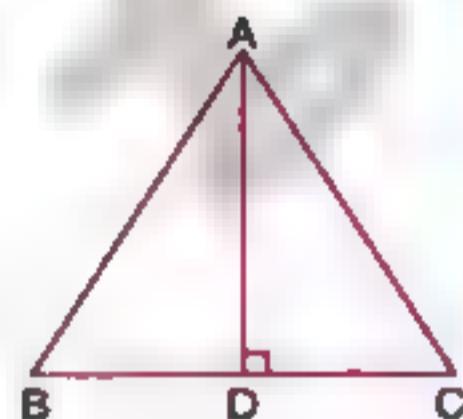
3 **Answer the following :**

(23) From the opposite Venn diagram , find :

[a] $A \cap B$ = ...

[b] $\hat{A}$ = ...
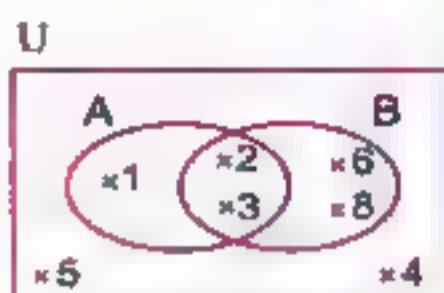
(24) A box contains identical balls where 5 are white , 9 are red and 6 are black. If one ball is chosen randomly , what is the probability that :

[a] The chosen ball is white ? ....

[b] The chosen ball is not black ? ....

(25) A truck can hold 125 boxes of oranges at a time. How many times are needed to deliver 4375 boxes by that truck ? (show steps)

....

(26) Draw ABC triangle in which

BC = 6 cm. and AB = AC = 5 cm.

Draw $\overline{AD} \perp \overline{BC}$ and find its length.

---

19 **Beni Suef Governorate**   Samste Educational Directorate
Maths Supervision

Answer the following questions :

1 **Choose the correct answer :**

(1) The probability of the impossible event = ...

($\emptyset$ or   zero   or   1   or $\frac{1}{3}$)

(2) The number of the altitudes of the triangle = ...

(0   or   1   or   2   or   3)

(3) If $X \subset Y$, then $X \cap Y$ = ...   (X   or   Y   or $\emptyset$ or   U)

(4) 46.432 ≃ 46.43 approximated to the nearest ....

(ten   or   0.1   or   0.01   or   0.001)

(5) If $\{3 , 4\} = \{1 + y , 3\}$, then y = ...   (7   or   4   or   2   or   3)

(6) 40 days ≃ .... weeks.   (4   or   6   or   5   or   7)

(7) 17.947 ≃ .... (to the nearest hundredth)

(17.948   or   17.95   or   17.90   or   17.94)

85

(8) {2 , 3} ··········· {5 , 7 , 8}　　　　　($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(9) 95.3 × 100 = ··········　　　　(0.953 or 953 or 9530 or 9.53)

(10) As throwing a die once, then the probability of appearing a number less than 3 = ···········　　　　($\frac{1}{6}$ or $\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{2}{5}$)

(11) 1.7 ÷ 10 = ···········　　　　(17 or 0.17 or 1.7 or 0.017)

(12) 254 hours $\simeq$ ·········· days.　　　　(11 or 10 or 12 or 9)

(13) The chord which passes through the centre of the circle is called ·······　(a diameter or a radius or a centre or a side)

(14) 255 + 25 = 2.55 + ········　　　　(2.5 or 0.25 or 25 or 2500)

---

② Complete the following :

(15) If {8 , 6 , 7} = {x , 8 , 7} , then x = ·············

(16) 7.64 × 0.93 $\simeq$ ········· (to the nearest thousandth)

(17) The midpoint of any diameter in a circle is ············· of the circle.

(18) 57.35 + 21.53 = ············· $\simeq$ ············· (to the nearest tenth)

(19) {2 , 3 , 6 , 12} $\cap$ the set of factors of the number 6 = ···········

(20) If 6 $\in$ {3 , 5 , 2 x} , then x = ···········

---

③ Answer the following :

(21) 6.7898 − 4.247 = ············· $\simeq$ ············· (to the nearest thousandth)

(22) $\frac{5}{7} \times 1\frac{2}{5}$ = ···········

(23) 7885 ÷ 1000 = ···········

(24) 26272 ÷ 821 = ···········

(25) What is the number which is multiplied by 0.5 the product will be 33.86 ?

···

(26) Look at the opposite Venn diagram and find :

[a] X $\cap$ Y = ··········

[b] X $\cup$ Y = ···········

[c] X − Y = ··········

[d] $\acute{Y}$ = ···········

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(27) Draw the triangle ABC in which

AB = BC = 6 cm. and m (∠ B) = 120°

, then draw $\overline{AD} \perp \overrightarrow{BC}$ which intersects it at D

, then find the length of $\overline{AD}$

(28) A bag contains 3 white balls, 7 red balls and 5 yellow balls.

All the balls are equal in size. If a ball is drawn randomly.

[a] What is the probability that the drawn ball is white ? ···············

[b] What is the probability that the drawn ball is not red ? ·· ········

(29) A car covers equal distances in equal times. If this car covered

24.73 km. in one hour, how many km. are covered in $2\frac{1}{2}$ hours ?

··

(30) A metal coin was thrown once, find the probability of appearing a head.

··

(20) El-Menia Governorate   El-Menia Official Language School
                                    Maths Department

Answer the following questions :

Choose the correct answer :

(1) 5.421 × 100 ☐ 52.41 × 10   (> or = or < or ≤)

(2) If X ⊂ Y , then X ∩ Y = ··············   (U or X or Y or ∅)

(3) {3 , 7} ············ {1 , 3 , 7}   (∈ or ∉ or ⊂ or ⊄)

(4) The chord which passes through the centre of a circle is called ·········

                     (diameter or radius or centre or side)

(5) A ∩ Â = ··············   (A or U or ∅ or Â)

(6) Every triangle has ··········· altitudes.   (1 or 2 or 3 or 4)

(7) 312 ÷ 10 = ··············   (3.12 or 0.312 or 31.2 or 3120)

(8) When tossing a coin once , the probability of appearing a tail = ··············

                     (1 or $\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{4}$)

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المعاصر   موقع ذاكرولي التعليمي   الصف الخامس الابتدائي

(9) The shaded part in the opposite figure represents ....

$$(X \cap Y \quad or \quad X \cup Y \quad or \quad X - Y \quad or \quad Y - X)$$

(10) The probability of sure event = ... $(0 \quad or \quad \frac{1}{2} \quad or \quad 1 \quad or \quad 2)$

(11) $0.3 \times 0.2 = $ .... $(0.6 \quad or \quad 0.06 \quad or \quad 0.006 \quad or \quad 6)$

(12) $82.487 \simeq 82.5$ to the nearest ....

(tenth   or   unit   or   hundredth   or   thousandth)

(13) $4 \times \frac{1}{4} = $ .... $(1 \quad or \quad 4 \quad or \quad 8 \quad or \quad 16)$

(14) $\frac{1}{2} \boxed{} \frac{1}{3}$ $(< \quad or \quad > \quad or \quad = \quad or \quad \leq)$

2 **Complete each of the following :**

(15) If $\frac{2}{5} = \frac{a}{15}$, then a = ...

(16) 3.002 kg. = ... gm.

(17) If $4 \in \{ 3 , x , 5 \}$, then $x = $ ....

(18) $36.274 + 33.28 = $ .... $\simeq$ .... $\left(\text{to the nearest } \frac{1}{100} \right)$

(19) $\frac{4}{12} + \frac{6}{12} = $ ....

(20) A circle which its diameter length is 10 cm. , the length of its radius is .... cm.

(21) $4.5 \div 0.5 = $ ....

(22) $12.5 - 3.75 \simeq $ .... $\left(\text{to the nearest } \frac{1}{10} \right)$

3 **Answer the following :**

(23) Draw △ ABC in which

AB = 7 cm. , BC = CA = 6 cm.

, then draw the line segment from C

that is perpendicular to $\overline{AB}$

and find its length.

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Maths

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Final Examinations

(24) From the opposite figure , find :

[a] $X \cup Y =$ ....

[b] $X \cap Y =$ ....

[c] $X - Y =$ ....

[d] $(X \cup Y) =$ ....
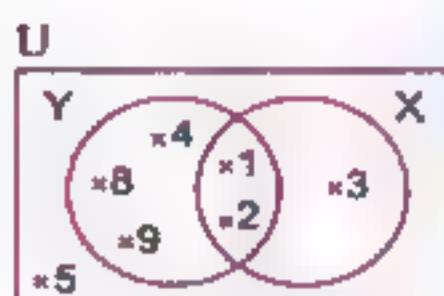
(25) Arrange in an ascending order :

$$0.6 \ , \ \frac{1}{2} \ , \ 0.8 \text{ and } \frac{3}{4}$$

The order is : .... , ... , ... and ....

(26) A box contains 5 white balls , 9 red balls and 6 black balls , all the balls are identical and equal size , if a ball is drawn randomly , what is the probability that the drawn :

[a] White ? ....   **[b]** Red ? ....

---

(21) **Souhag Governorate**   Maths Supervision

Answer the following questions :

Choose the correct answer :

(1) 2 .... $\{5 \ , 2 \ , 52\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(2) $\frac{1}{8} \simeq$ .... (to the nearest hundredth)

         (0.125 or 0.12 or 0.13 or 1.0)

(3) $806.7 \div 100 =$ .... (80.67 or 8.067 or 80670 or 8067)

(4) $98.7 \times 1000 =$ .... (987.0 or 0.987 or 98700 or 9870)

(5) $\varnothing$ .... $\{0\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(6) $\frac{1}{2}$ ☐ $\frac{1}{3}$ (< or > or = or ≤)

(7) 3.36 km. $=$ .... m. (3.36 or 33.6 or 336 or 3360)

(8) If $6 \in \{3 \ , 5 \ , 2x\}$, then $x =$ .... (2 or 3 or 4 or 5)

(9) $\frac{5}{6} + \frac{2}{6} =$ ....   ($\frac{5}{7}$ or $\frac{7}{12}$ or $\frac{7}{6}$ or $\frac{3}{7}$)

(10) $9\frac{3}{25} \simeq$ .... (to the nearest tenth) (0.9 or 9.2 or 9.1 or 9)

(11) A circle with a diameter length 8 cm. , then the length of its radius

$=$ .... cm.   (4 or 5 or 6 or 16)

المعاصر رياضيات (Worksheets & Examinations) / ٥ ب / نره ١ (٥ : ١٢)   **89**

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المعاصر   موقع ذاكرولي التعليمي   الصف الخامس الابتدائي

(12) The number of the altitudes in any triangle = ·············

(1 *or* 2 *or* 3 *or* 0)

(13) 48.2 × 3.7 ☐ 4.82 × 37   (< *or* > *or* = *or* ≠)

(14) The number 83.7694 ≃ 83.77 to the nearest ·············

($\frac{1}{10}$ *or* $\frac{1}{100}$ *or* $\frac{1}{1000}$ *or* $\frac{1}{10000}$)

② Complete each of the following :

(15) ············· × $2\frac{1}{5}$ = 1

(16) The longest chord in a circle is called ···········

(17) The probability of the sure event = ···········

(18) $3\frac{1}{4} \times \frac{2}{3}$ = ···········

(19) The chord which passes through the centre of the circle is called ·············

(20) 478.347 − 134.834 = ·············

(21) {1 , 2} ∪ {2 , 3 , 4} = ·············

(22) {5 , 6} ∩ {4 , 5} = ·············

③ Answer the following questions :

(23) Using the opposite Venn diagram , find :

[a] X ∪ Y = ·············

[b] X ∩ Y = ·············

[c] $\overset{\curvearrowright}{X}$ = ·············

[d] X − Y = ·············
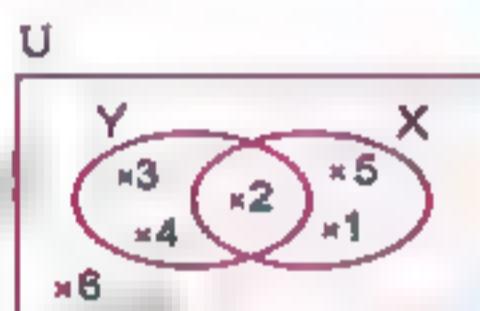
(24) If the price of a piece of sweet is 2.25 pounds , what is the price of 25 pieces of the same kind ?

··············· ··············· ··············· ···············

(25) Draw the triangle ABC where

AB = 4 cm. , BC = 5 cm.

and CA = 6 cm.

(26) A box contains 5 white balls , 4 blue balls and 2 red balls , find the probability of getting :

[a] A blue ball = ·············   [b] A red ball = ·············

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(22) Qena Governorate
Qaft Educational Zone
Qaft Language School

Answer the following questions :

1 Complete :

(1) $4.526 \times 100 =$ ....

(2) The longest chord in the circle is called ....

(3) $\frac{3}{7} + \frac{1}{2} =$ ....

(4) $62.345 + 15.632 =$ .... $\simeq$ .... (to the nearest hundredth)

(5) $4.32 \times 3.6 =$ ....

(6) If $A \subset B$, then $A \cup B =$ ....

(7) $4.8 \div 10 =$ ....

(8) The probability of the impossible event = ...

(9) $5\frac{2}{3} \times \frac{3}{17} =$ ....

(10) The number of altitudes of a triangle = ...

2 Choose the correct answer :

(11) $\frac{1}{3} \times 3 =$ .... (3 *or* $\frac{1}{9}$ *or* 1 *or* 6)

(12) $0.06 \times 0.3 =$ .... (18 *or* 0.018 *or* 0.18 *or* 0.09)

(13) $\{23\}$ .... $\{2 , 3\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(14) A letter is selected randomly from the word "Ahmed" , the probability
of selecting the letter A is .... ($\frac{1}{5}$ *or* $\frac{2}{5}$ *or* $\frac{3}{5}$ *or* $\frac{4}{5}$)

(15) $62.38 \div 10 =$ .... (623.8 *or* 62380 *or* 6.238 *or* 6238)

(16) $X \cup \acute{X} =$ .... (X *or* $\acute{X}$ *or* U *or* $\acute{U}$)

(17) $\frac{4}{7}$ ☐ $\frac{5}{9}$ (< *or* = *or* >)

(18) If $7 \in \{3 , 5 , x\}$, then $x =$ .... (3 *or* 5 *or* 7 *or* 8)

(19) 4 .... the set of digits of the number 3456
($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(20) The set of even numbers between 6 and 34 , then its type is ....
(finite *or* infinite *or* empty)

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(21) A circle of diameter length 6 cm. , then its radius length = ... cm.
(6 or 12 or 3 or 2)

(22) A bag has 5 red balls and 3 white balls , if a ball is drawn randomly , then the probability that the drawn ball is white = ...
($\frac{3}{5}$ or $\frac{3}{8}$ or $\frac{5}{8}$ or $\frac{5}{3}$)

(23) 0.74 × 1000 = ... (740 or 74 or 74000 or 0.074)

(24) If {3 , 6 , x} = {6 , 2 , 3} , then x = ... (3 or 6 or 9 or 2)

(25) 36.36 ÷ 9 = ... (44 or 4.4 or 40.4 or 4.04)

(26) If A ⊂ B , then A ∩ B = ... (A or Ā or B or B̄)

3 Answer the following :

(27) Draw the circle M of radius length 4 cm.
, then draw the diameter $\overline{AB}$
and the chord $\overline{AC}$ = 6 cm.

(28) Find the result of :
24.581 + 5.23 = ...

(23) Luxor Governorate Luxor Educational Directorate Maths Department

Answer the following questions :

Choose the correct answer :

(1) If 7 ∈ {3 , x , 5} , then x = ... (3 or 8 or 5 or 7)

(2) 76.518 ≃ .... (to the nearest hundredth)
(76.52 or 765.2 or 76.5 or 7652)

(3) $\frac{3}{4}$ ☐ $\frac{2}{3}$ (> or < or =)

(4) 5.748 × 100 = ... (57.48 or 0.5748 or 574.8 or 5748)

(5) The longest chord in the circle is called ....
(radius or diameter or chord or centre)

(6) ∅ .... {2 , 5} (∈ or ∉ or ⊂ or ⊄)

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Final Examinations

(7) $\frac{4}{5} \times \frac{1}{3} = $ ....   ($\frac{1}{2}$ **or** $\frac{12}{5}$ **or** $\frac{4}{15}$ **or** $\frac{5}{8}$)

(8) $537.1 \div 10 = $ ....   (5371 **or** 53.71 **or** 5.371 **or** 0.5371)

(9) If X = {2 , 3 , 5} and Y = {4 , 3 , 6} , then X ∩ Y = ...

({5} **or** {5 , 2} **or** {3} **or** {5 , 6})

(10) Any triangle has .... altitudes.   (5 **or** 2 **or** 3 **or** 1)

(11) $0.1 \times 0.3 = $ ....   (0.4 **or** 0.3 **or** 0.13 **or** 0.03)

(12) 5 .... {1 , 5 , 3 , 7}   (∈ **or** ∉ **or** ⊂ **or** ⊄)

(13) $\frac{2}{5} \div \frac{1}{4} = $ ......   ($\frac{8}{5}$ **or** $\frac{6}{5}$ **or** $\frac{5}{8}$ **or** $\frac{2}{3}$)

(14) {2 , 5 , 6} − {6 , 5 , 3} = ... ({5} **or** {5 , 6} **or** {3} **or** {2})

② Complete the following :

(15) $15.3689 - 12.1564 = $ .... ≃ .... (to the nearest thousandth)

(16) The altitudes of the acute-angled triangle intersect .... the triangle.

(17) The probability of getting a head when tossing a coin once is .....

(18) $16.78 \div 100 = $ ....

(19) If X = {2 , 7 , 5} and Y = {3} , then X ∪ Y = ...

(20) A circle its diameter length is 8 cm. , then its radius length is .... cm.

(21) $3 \times 0.4 = $ ....

(22) {3 , 5 , 8} − {1 , 5 , 3 , 6 , 8} = ...

③ Answer the following :

(23) $3.148 + 5.231 = $ .... ≃ .... (to the nearest hundredth)

(24) If a die is tossed once , find the probability of :

    [a] Getting an even number = ...

    [b] Getting a number greater than 7 = ...

(25) Use the opposite Venn diagram to find :

    [a] Y ∩ X = ...

    [b] Y` = ...

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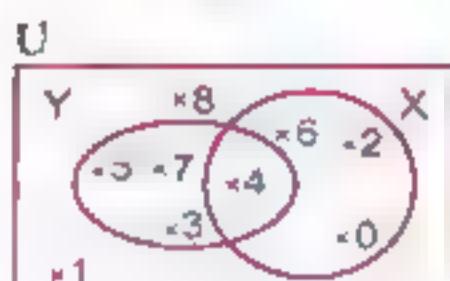
(26) Draw the equilateral triangle ABC
where each side is equal to 3 cm.
, and draw an altitude from
the vertex C perpendicular to $\overline{AB}$

(24) Aswan Governorate

Aswan Educational Directorate
M. M.Yaqoub Language School
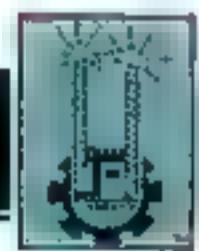
Answer the following questions :

1 Choose the correct answer :

(1) $4.763 \simeq$ .... (to the nearest hundredth)

(4.77 *or* 4.7 *or* 4.76 *or* 4.764)

(2) $X \cap X` =$ ....

(X *or* $\grave{X}$ *or* U *or* $\varnothing$)

(3) $\frac{5}{7}$ ☐ $\frac{5}{6}$

(< *or* = *or* > *or* ≥)

(4) $9.82 \times 1000 =$ ....

(98.2 *or* 0.982 *or* 9820 *or* 982)

(5) $1.8 \times 5 =$ ....

(9 *or* 9.5 *or* 1.85 *or* 18.5)

(6) $\frac{1}{4} \times \frac{2}{3} =$ ....

($\frac{3}{8}$ *or* $\frac{1}{6}$ *or* $\frac{2}{7}$ *or* $\frac{3}{7}$)

(7) $5.8 \div 10 =$ ....

(5800 *or* 580 *or* 58 *or* 0.58)

(8) If $X \subset Y$, then $X \cap Y =$ ....

(X *or* Y *or* $\varnothing$ *or* $X \cup Y$)

(9) $\frac{1}{2} + \frac{1}{4} =$ ....

($\frac{1}{8}$ *or* 4 *or* 2 *or* 8)

(10) $\{35\}$ .... $\{1 , 3 , 5\}$

($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(11) If $\{4 , 7\} = \{x , 4\}$, then $x =$ ....

(4 *or* 7 *or* 3 *or* 47)

(12) A circle with diameter length 6 cm. , then its radius length = ... cm.

(6 *or* 4 *or* 12 *or* 3)

(13) If $5 \in \{3 , 4 + x\}$, then $x =$ ....

(1 *or* 3 *or* 4 *or* 5)

(14) If $\frac{2}{5} = \frac{x}{10}$, then $x =$ ....

(2 *or* 4 *or* 5 *or* 8)

2 Complete :

(15) The longest chord in a circle is called ....

(16) $\{2 , 5\} \cup \{7 , 5\} =$ ....

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(17) When tossing a die once, the probability of getting a number 5 is ⋯⋯⋯

(18) $\frac{3}{4} + \frac{3}{8} = $ ⋯⋯⋯⋯

(19) The number of altitudes of any triangle = ⋯⋯⋯⋯

(20) The probability of the certain event = ⋯⋯⋯

(21) The sum of the measures of the interior angles of any triangle = ⋯⋯⋯⋯ °

(22) 0.35 kg. = ⋯⋯⋯⋯ gm.

Answer the following :

(23) A box contains 3 white balls, 7 red balls and 5 yellow balls, all of equal size, one ball is chosen randomly. Find the probability of choosing :

[a] A white ball = ⋯⋯⋯

[b] Not yellow ball = ⋯⋯⋯

(24) Draw the equilateral triangle ABC

whose side length = 5 cm.

, then draw $\overline{CD} \perp \overline{AB}$

(25) If the price of a piece of sweet is 2.25 pounds, what is the price of 5 pieces of the same kind ?

The price = ⋯⋯⋯⋯⋯ = ⋯⋯⋯⋯ pounds.

(26) From the opposite figure, find :

[a] $\overset{\smile}{X} = $ ⋯⋯⋯⋯

[b] $Y - X = $ ⋯⋯⋯⋯
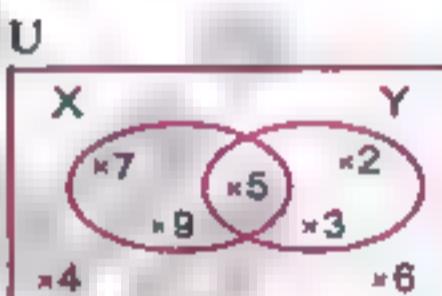
(25) South Sinai Governorate   Sinai Educational Zone   Maths Inspection

Answer the following questions :

Choose the correct answer :

(1) $98.7 \times 100 = $ ⋯⋯⋯   (9.87 *or* 987 *or* 9870 *or* 0.987)

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(2) $736.592 \simeq 736.59$ approximated to the nearest ....

(unit **or** tenth **or** hundredth **or** thousandth)

(3) If $\{2 , 3 , 4\} = \{3 , 4 , x\}$, then $x = $ .... (1 **or** 2 **or** 3 **or** 4)

(4) Any chord passes through the centre of the circle is called a ....

(straight line **or** diameter **or** radius **or** ray)

(5) $11664 \div 216 \simeq$ .... (50 **or** 54 **or** 58 **or** 62)

(6) $\{5\} - \{1 , 2 , 5\} = $ .... ($\{5\}$ **or** $\{1\}$ **or** $\{1 , 2\}$ **or** $\varnothing$)

(7) $37.4289 - 14.081 \simeq$ .... (to the nearest thousandth)

(23.349 **or** 23.350 **or** 23.348 **or** 23.248)

(8) If $X \subset Y$, then $X \cap Y = $ .... (X **or** $\{0\}$ **or** Y **or** $\varnothing$)

(9) The number of altitudes of any triangle is ....

(1 **or** 2 **or** 3 **or** 4)

(10) $\{1 , 7\}$ .... $\{0 , 1 , 2 , 3 , 4 , ...\}$ ($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(11) $75.3 \div 100 = $ .... (7530 **or** 753 **or** 7.53 **or** 0.753)

(12) $\frac{1}{2}$ ☐ $\frac{1}{3}$ ($\leq$ **or** $<$ **or** $>$ **or** $=$)

(13) $5.45 \div 0.5 = $ .... (1.9 **or** 19 **or** 1.09 **or** 10.9)

(14) The number of subsets of the set $\{5\}$ is ....

(0 **or** 1 **or** 2 **or** 3)

---

2   Complete the following :

(15) 2.4 dm. = ... cm.

(16) $\frac{1}{3} \times \frac{2}{5} = \frac{............}{............}$

(17) A circle whose diameter length is 4 cm. , then the length of its radius is .... cm.

(18) $\{1 , 2 , 4\} - \{2 , 4 , 6\} = $ ....

(19) If $\frac{b}{8} = \frac{15}{24}$, then $b = $ ....

(20) The longest chord in a circle is called ....

(21) If $X = \{1 , 2 , 5 , 7\}$ and $Y = \{1 , 5 , 3\}$, then $X \cap Y = $ ....

(22) The probability of the certain event =

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3 Answer the following :

(23) If the price of one metre of cloth is 6.45 pounds, then what is the price of 2.4 metres of cloth ?

The price = ...

(24) By using the opposite Venn diagram, find the following sets by listing method :

[a] X ∩ Y = ...

[b] Y` = ...

(25) Draw the triangle XYZ in which
XY = YZ = 7 cm. and XZ = 4 cm.
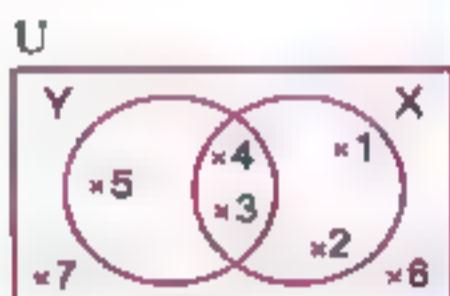
(26) A bag contains 5 white balls, 9 red balls and 6 black balls identically, a ball is drawn blindly, then what is the probability that the drawn ball is white ?

....

Guide Answers of Final Examinations

Note : The drawn lengths are not real.

Answers of Models of the School Book

Model 1

1. (1) right-angled triangle (2) 11
   (3) 3 (4) 3750
   (5) > (6) $X \cap Y$
   (7) > (8) $\frac{3}{4}$
   (9) 6 (10) diameter
   (11) ⊄ (12) 100
   (13) ∈ (14) >

2. (15) [a] $MB \cdot MC$ (b) $\overline{AB}$
   (16) $\frac{2}{5}$ (17) 1 (18) 6
   (19) 24 (20) (6 , 8)
   (21) 0.304 (22) $\frac{8}{30}$

(23)

(24) $\frac{40}{100} = \frac{2}{5}$

(25) The order is : 6 , $\frac{1}{4}$, 5 $\frac{3}{4}$, 5 $\frac{3}{5}$ and 5 $\frac{3}{3}$

(26) The side length of the square = 3 + 3
= 6 cm.
The perimeter of the square = 6 × 4
= 24 cm.

Model 2

1. (1) 3360 (2) 9.1
   (3) $\frac{1}{8}$ (4) >
   (5) 0.111 (6) =
   (7) 0.3 (8) $X \cup Y$
   (9) ⊄ (10) 5

Answers of Final Examinations

Model 1

2. (11) > (12) 3
   (13) $\frac{2}{3}$ (14) $\frac{1}{2}$
   (15) $\frac{10}{6}$ (16) X
   (17) AB (18) $X - Y$
   (19) 2 (20) 4.680
   (21) 4 (22) 1000
   (23) $X \cap Y = \{1\}$

(24)

The length of $\overline{BC}$ = 4 cm.

(25) $\frac{5}{25} = \frac{1}{5}$

(26) The area of the rectangle = 4.1 × 3.5
= 14.35 cm²

Model for the special needs students

1. (1) $\frac{1}{2}$ (2) 3
   (3) 31.2 (4) $X \cup Y$
   (5) diameter (6) =
   (7) 3 (8) ⊂
   (9) $\frac{1}{2}$ (10) 0.5

2. (1) 49 (2) $\frac{1}{4}$
   (3) 12 (4) 2
   (5) (1 , 6) (6) =
   (7) $\frac{1}{2}$ (8) >
   (9) $\frac{1}{2}$ (10) 0.5

3. (1) $X \cap Y$ (2) >
   (3) 4.3 (4) $\frac{1}{2}$
   (5) altitude

43

Answers of Schools' Examinations

① — Cairo —

1 (1) 425 (2) 4 (3) 3
(4) 0.01 (5) 3 (6) $\frac{2}{5}$
(7) > (8) $\frac{9}{7}$ (9) X
(10) ∉ (11) C (12) diameter
(13) $\frac{3}{5}$ (14) 2

2 (15) 10 (16) 136.454 , 136.5
(17) 5 (18) outside (19) 9
(20) radius (21) zero (22) 72

**3** (23) [a] $\frac{6}{9} = \frac{2}{3}$ [b] $\frac{0}{20} = 0$
(24) [a] (3) [b] $\frac{16}{20} = \frac{4}{5}$
[c] $\frac{13}{20}$ [d] {1 , 2}
(25) [a] 28 [d] {1 · 2 · 3 · 4}
(26) [b] 0.714

(26)
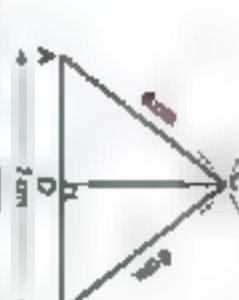
The length of $\overline{CD}$ = 4.9 cm.

② — Cairo —

1 (1) 3 (2) ⊄ (3) 3
(4) a diameter (5) ⊄ (6) $\frac{2}{7}$
(7) 9,1 (8) Y − X (9) 11
(10) > (11) = (12) 50

2 (13) X (14) {3 · 5} (15) 17
(16) 10 (17) $\frac{5}{10}$ (18) outside it
(19) 616 (20) 5 · 4 (21) 0.27

3 (23) [a] $\frac{5}{15} = \frac{1}{3}$ [b] $\frac{12}{18} = \frac{2}{3}$
(24) The cost = 6.45 × 2.4 = L.E. 15.48
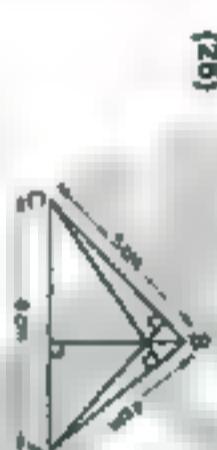
③ — Cairo —

1 (1) 69.554 , 69.55 (2) 4 (3) 3
(4) {1 · 3 · 4 · 5} (5) 7 (6) 0
(6) a diameter (7) 12.3 (8) 0

2 (9) 3 (10) 2 × r (11) X
(12) C (13) ∈ (14) an infinite
(15) C (16) 2 (17) 15
(18) < (19) 0.24 (20) 7.105
(21) $\frac{1}{10}$ (22) =

3 (23) [a] $\frac{8}{12} = \frac{2}{3}$ [b] $\frac{9}{12} = \frac{3}{4}$
(24) [a] {1 · 2 · 3 · 5 · 9} [b] {3}
[c] {5 · 9} [d] {4 · 6 · 8 · 9}
(25)

(26) [a] 17 [b] 2

The length of CD = 3.6 cm.

④ — Cairo —

1 (1) $\frac{3}{7}$ (2) {5} (3) 108.083 , 108.08
(4) 5 (5) X (6) a diameter
(7) zero (8) the vertex of the right angle
(9) 1 (10) 85.25 m²

⑥ — Giza —

1 (1) 4 (2) 0.65 (3) $\overline{AB}$
(4) 12.25 (5) X (6) 138 33
(7) 7 (8) 5 (9) 10
(10) $\frac{2}{3}$ (11) 30 (12) 2
(13) diameter (14) $\frac{2}{9}$

2 (15) 0 (16) 21 75 (17) 0.8597
(18) ∅ (19) 0 (20) 3
(21) 6250 (22) 180

3 (23) [a] (1) [b] {3 · 4 · 5}
(24) [a] The length of $\overline{BC}$ = 6.2 cm.
[b] $\frac{15}{18}$

⑤ — Giza —

1 (1) 5.04 (2) X (3) 0
(4) an infinite (6) 4 (6) 4
(7) 32750 (8) a (9) $\frac{1}{2}$
(10) 1 (11) $\frac{3}{2}$ (12) x
(13) C (14) 5

2 (15) disjoint (16) 29.21 , 29.2 (17) $\frac{3}{4}$
(18) $\frac{5}{9}$ (19) a radius (20) 100
(21) 5 (22) 90

3 (23) 34
(24) The order is: 0.2 , $\frac{1}{2}$, 3$\frac{1}{2}$ and 7$\frac{1}{2}$
(25) [a] $\frac{5}{10} = \frac{1}{2}$ [b] $\frac{9}{10} = 0$
[c] $\frac{3}{10}$
(26)

② — Giza —

(24) [a] The length of $\overline{BC}$ = 6.2 cm. [b] $\frac{15}{18}$
(25) X∩Y = {1 · 6}
X−Y = {3}
Y = {3 · 7 · 11}
(26) [a] $\frac{8}{2} = 0$ [b] $\frac{5}{8} = \frac{1}{2}$

⑦ — Alexandria —

1 (1) 18 (2) ∈ (3) C
(4) 3 (5) 4750 (6) $\frac{1}{2}$
(7) 3 (8) 36.75 (9) Y − X
(10) 1 (11) 1 (12) A

2 (13) 8 (14) < (15) equal in length
(17) $\frac{2}{3}$ (18) $\frac{5}{11}$ (19) 64.14
(20) 8 8642 (21) 1 5625 (22) 2

3 (23) [a] {6 · 8} [b] {2 · 3 · 6 · 8 · 4 · 5}
(24) [a] $\frac{5}{11}$ [b] $\frac{3}{11}$
(25) [a] a diameter [b] a chord
[c] $\frac{11}{17}$ = 1
(26)

[a] m (∠ B) = 90°
[b] △ ABC is a right-angled triangle.

Answers of Final Examinations

8 – Alexandria –

(1) 0.8492   (2) $\frac{3}{4}$ (3) 865.7
(4) <   (5) 33510   (5) ∈
(7) 8   (8) an acute   (9) ∉
(10) 6.5   (11) ∅   (12) 3
(13) 3.8   (14) >
(15) the intersection   (16) $\frac{3}{4}$
(17) 42   25   (18) 20   (19) 20
(20) {10 , 12}   (21) $\frac{5}{8} = 1\frac{1}{8}$ (22) a chord
(23) X ∩ Y = {6}
X = {0 , 4 , 10}
Y = {2 , 8 , 0 , 4}

(24) The order is: $\frac{1}{3}$, 0.45 , $\frac{3}{8}$ and 0.225
(25) [a] $\frac{350}{600}$ [b] $\frac{250}{600} = \frac{5}{12}$
(26) $\frac{7}{12}$

9 – El-Kalyoubia –

(1) ∈   (2) 3750   (3) 0.25
(4) 98   (5) 8   (6) 1
(7) =   (8) ⊂   (9) 52.91
(10) ∅   (11) $\frac{1}{16}$ (12) 1
(13) 3   (14) 8
(15) {3 , 5 , 7}   (16) 0.528   (17) $\frac{1}{4}$
(18) 3002   (19) 3.1   (20) 28
(21) {1 , 2 , 3 , 4 , 5}   [b] {3 , 4 , 5}
(22) 8
(23) ∅ , {3} , {7} and {3 , 7}
(24) X ∪ Y = {3 , 4 , 5 , 6}
X − Y = {3 , 4}
(26) $\frac{3}{10}$

10 – El-Sharkia –

(1) 376   (2) >   (3) ⊂
(4) $\frac{1}{2}$ (5) 1   (6) 3
(7) ∅   (8) 3360   (9) 8
(10) 3   (11) diameter   (12) 12.1
(13) X ∩ Y   (14) 31.2
(15) X   (16) 1   (17) 168
(18) 4.68   (19) 5   (20) $\frac{4}{5}$
(21) 2   (22) 2 , 1
(23) The weight = 6504 ÷ 492 = 12 kg.
(24) [a] {1 , 2 , 4 , 6}   [b] {5}
[c] {1 , 2}   [d] {4 , 3 , 6}
(25) $\frac{5}{15} = \frac{1}{3}$
(26)

11 – El-Monofia –

(1) 8   (2) 4   (3) $\frac{1}{8}$
(4) ∅   (5) 276 533   (6) $\frac{5}{6}$
(7) 3   (8) ⊂   (9) ∉
(10) 5   (11) 6   (12) outside
(13) 6   (14) 109
(15) 100.00   (16) 5400   (17) $\frac{1}{12}$
(18) Y , X   (19) 3   (20) diameter
(21) 101   (22) 3750
AB = 6 cm.
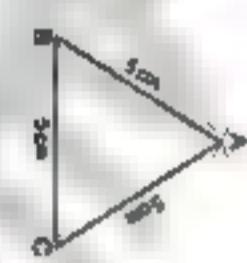
12 – El-Gharbia –

(1) =   (2) 0.357   (3) $\frac{1}{2}$
(4) ⊂   (5) $\frac{2}{7}$ (6) ∅
(7) 25   (8) >   (9) 24 64
(10) {7}   (11) A   (12) 3
(13) 5   (14) Y
(15) 6   (16) 3560   (17) {2}
(18) 10   (19) ∅   (20) 1
(21) 3   (22) 109
(23) The price of 3 metres = 27.5 × 3 = 82.5 pounds.
(24) [a] {5}   [b] {1 , 2 , 4 , 5}
[c] {1 , 2}   [d] {4 , 3 , 6}
(25) [c] $\frac{1}{6}$

13 – El-Dakahlia –

(1) 15   (2) 16   (3) 0.5   (4) ⊂
(5) 2   (6) 6   (7) 10   (11) 5
(8) 1   (9) X   (10) 3   (13) 0.15
(12) 0.1
[a] $\frac{3}{8} = \frac{1}{2}$ [b] $\frac{5}{6} = 1$
[c] {1 , 2}   [d] $\frac{4}{6} = \frac{2}{3}$
[c] $\frac{1}{6}$
The length of $\overline{AD}$ = 4 cm.

El-Sharkia figure — AB = 6 cm

Answers column (El-Gharbia lower):
(13) X ∩ Y = {2 , 3} = 8
(24) A ∩ B = {2 , 3} = 8
A ∪ B = {1 , 6 , 2 , 3} = A
(25)
(26) [a] $\frac{9}{20} = \frac{3}{5}$ [b] $\frac{0}{20} = 0$

(23) The order is: $\frac{1}{4}$, 0.4 , $\frac{3}{4}$, $\frac{3}{4}$ and 0.8

14 – Ismailia –

(1) <   (2) 1   (3) 3
(4) ⊂   (5) ✓   (6) X
(7) 3   (8) 7   (9) $\frac{1}{4}$
(10) 3   (11) 6800   (12) 10
(13) $\frac{3}{5}$ (14) 8
(15) 2830   (16) 8.373   (17) 0.736
(18) 6.38   (19) 10 , 2   (20) $\frac{7}{10}$
(21) a diameter   (22) a radius
(23)
(24) [a] {8 , 8}   [b] $\frac{7}{10} = \frac{3}{10}$
(25) [a] $\frac{7}{12} = \frac{3}{4}$
[c] {6 , 7}   [d] {4 , 5}
(26)
(b) The perimeter of △ABC = 6 + 6 + 6 = 18 cm.

(23) [a] [5]
(24) [a] {1 , 2 , 3 , 6 , 7}   [b] {2}
[c] {6 , 7}   [d] {4 , 5}
(20) <

(24) The total price = 35 × 7.5 = 262.5 = 283 pounds.

⑮ Suez

1
(1) = (2) 6 (3) ∉
(4) 3 (5) diameter (6) 5
(7) 18.17 (8) 278.53 (9) Y
(10) 4 (11) 1 (12) 0.25
(13) 6 (14) Y – X
(15) 3750 (16) 18 (17) {4}
(18) {1 , 3 , 5} (19) 6
(20) 40 (21) 5 (22) ½

3 (23) The order is 3.125 , 3 ¼ , 3.3 and 3 ⅜
(24) [a] {3} [b] {3 , 4 , 5}
(25) [a] 8/8 = 0 [b] ⅞
(26)

⑯ Damietta

1
(1) 25.675 (2) 3526.94 (3) an infinite
(4) a diameter (5) > (6) 11
(7) 5 (8) 0.28 (9) 0.02321
(10) 0.027 (11) C (12) ∈
(13) 4 (14) outside
(15) 1 (16) 5/9 (17) 0.63
(18) ½ (19) 4 (20) {1 , 2}
(21) 3 (22) 3 cm.

3 (23) The weight = 5405 + 236 = 23 kg.
(24) [a] {7 , 8} [b] {6 , 8}
(25) [a] 6/20 = ¼ [b] 15/20 = ¾
(26)

⑰ Kafr El-Sheikh

1
(1) 0.27 (2) 1 (3) 24
(4) 4 (5) ⅔ (6) a diameter
(7) 9 (8) 0
(9) 11 (10) ⊄ (11) 3 (12) ½
(13) > (14) 8 (15) C (16) 3
(17) 6 (18) ∈ (19) 0.5 , (20) 24
(21) 180 (22) 3

3 (23) The width = 10.25 + 4.1 = 2.5 m.
The perimeter = (4.1 + 2.5) × 2 = 13.2 m.
The order is: ⅞ , 0.5 , ¾ and 0.8
(24) [a] {1 , 5 , 3 , 4 , 6} [b] {5 , 8}
[c] {6} [d] {1 , 3}
(25) The order is: ⅞ , 0.5 , ¾ and 0.8
(26)

⑱ El-Beheira

1
(1) X ∩ Y (2) 3 (3) 3750
(4) 24 (5) ⊄ (6) 3.13
(7) 3 (8) > (9) diameter
(10) 11 (11) 87 (12) 0.17
(13) 2126 (14) 2
(15) X (16) {8 , 0} (17) ½
(18) 4,679 (19) an altitude of △ABC
(20) 12 (21) 6 (22) ¾

3 (23) [a] {2 , 3} [b] {6 , 8 , 4 , 5}
(24) [a] 5/20 = ¼ [b] 14/20 = 7/10
(25) The number of times = 4375 + 125
= 35 times.

⑲ Beni Suef

1
(1) zero (2) 3 (3) X
(4) 0.01 (5) 3 (6) 6
(7) 17.95 (8) ⊂ (9) 8530
(10) ⅓ (11) 0.17 (12) 11
(13) a diameter (14) 30

2 (15) 6 (16) 7.105
(17) the centre (18) 78.88 , 78.9
(19) {2 , 3 , 6} (20) 3

3 (21) 5428 , 2.543 (22) 1 (23) 7 885
(24) 32
(25) The number = 33 88 × 0.5 = 67.72
[c] {1 , 2} [a] {3} [b] {1 , 2 , 3 , 4}
(27)

The length of $\overline{AD}$ = 4 cm.

The length of the altitude from C = 4.9 cm.
(24) [a] {1 , 2 , 3 , 4 , 9} [b] {3} [d] {6}
The order is ½ , ¾ , 0.8 , ⅔ and 0.8
[b] 8/20 = ⅖ [b] 3/20
(28)

2 (15) 6 (16) 3002 (17) 4
(18) 69.554 , 69.55 (19) ⅜
(20) 5 (21) 9 (22) 8.8
(23)

㉑ Souhag

1
(1) ∈ (2) 0.13 (3) 8.067
(4) diameter (5) 0 (6) >
(7) 3360 (8) 3 (9) ⊂ (10) ⅞
(18) 13/19 (19) a diameter (20) 343.513
(21) {1 , 2 , 3 , 4} (22) ⁴⁄₇ (23)
(7) 9.1 (11) 4 (14) 1/100
(15) 5/11 (16) 2 (13)

3 (23) [a] 3/8 = ⅜ [b] 7/16
(24) The price = 2.26 × 25 = 56.25 pounds.
[c] {3 , 4 , 6} [d] {5 , 1}
(25)

⑳ El-Menia

1
(1) > (2) > (3) C
(4) diameter (5) 0 (6) 3
(7) 312 (8) ½ (9) X ∩ Y
(10) 1 (11) 0.06 (12) tenth
(13) 1 (14) >

3 (23) [a] {2 , 3}
(24) [a] 5/20 = ¼ [b] 14/20 = 7/10
(25) [a] 6/17

48 49

50

22 — Qena

1) (1) 452.8 (2) a diameter
(3) 6/7 (4) 77 977 · 77 88
(5) 15 552 (6) 8 (7) 0.48
(8) 0 (9) 1 (10) 3

2) (11) 1 (12) 0.018 (13) ⊄
(14) 1/5 (15) 6 238 (16) t
(17) > (18) ∈ (19) 3/8
(20) finite (21) 3 (22) 8/8
(23) 740 (24) 2 (25) 4 04
(28) A
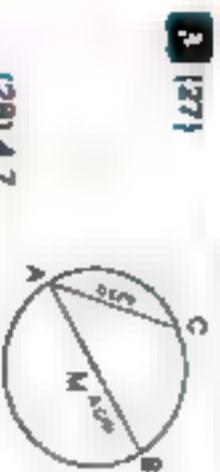
3) (27)

(28) 47

23 — Luxor

1) (1) 7 (2) 78 52 (3) >
(4) 574.8 (5) diameter (6) ⊂
(7) 15 (8) 53 71 (9) {3}
(10) 3 (11) 0.03 (12) ∈
(13) 8/5 (14) {2}

2) (15) 3 2*25 · 3 213
(16) inside (17) 1/2
(18) 0 1678 (19) {2 · 3 · 5 · 7}
(20) 4 (21) 12 (22) ∅

3) (23) 8.379 · 8 38
(24) [a] 3/8 = 1/2 [b] 0 = 0
(25) [a] {4} [b] {0 · 1 · 2 · 6 · 8}
(26)
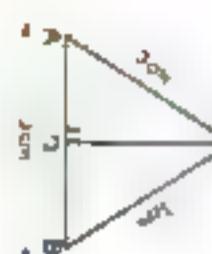
24 — Aswan

1) (1) 4 76 (2) ⊂ (3) <
(4) 9920 (5) 9 (6) 1/6
(7) 0.58 (8) X (9) 2
(10) 3 (11) 7 (12) 3
(13) t (14) 4

2) (15) 6 238 (16) {2 · 6 · 7}
(17) 8/8 (18) 2 (19) 3 (20) 1
(21) 180 (22) 350
(23) [a] 3/15 = 1/5 [b] 10/15 = 2/3
(24)

(25) The price = 2 25 × 5 = 11 25 pounds
(26) [a] {2 · 3 · 4 · 8} [b] {2 · 3}

25 — South Sinai

1) (1) 9970 (2) hundredth (3) 2
(4) diameter (5) 54 (6) ∅
(7) 23 348 (8) X (9) 3
(10) ⊂ (11) 0 753 (12) >
(13) 10 9 (14) 2

2) (15) 24 (16) 2 (17) 2
(18) 1 (19) 5 (20) a diameter
(21) 1 (22) 1

3) (23) The price = 6.45 × 2.4 = 15 48 pounds.
(24) [a] {3 · 4} [b] {1 · 2 · 3}
(25)

(26) The probability = 5/20 = 1/4

NOTES

Model Examinations 2018

Model 1

Answer the following questions :

1 *Choose the correct answer :*

(1) $14.726 \simeq$ .... (to the nearest hundredth)

(14.7 *or* 14.73 *or* 14.72 *or* 15)

(2) $\{3\}$ .... $\{1 , 3 , 5\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(3) $9.64 + 4 =$ .... (241 *or* 2.41 *or* 1.96 *or* 38.56)

(4) The probability of the impossible event is ....

(0 *or* $\frac{1}{3}$ *or* $\frac{2}{3}$ *or* 1)

(5) $\frac{1}{2} + \frac{1}{4} =$ .... (2 *or* 4 *or* 3 *or* 6)

(6) If $X \subset Y$, then $X \cap Y =$ .... (X *or* Y *or* U *or* $\acute{X}$)

(7) The shaded part in the opposite figure represents ....

($X \cup Y$ *or* $X - Y$ *or* U *or* $X \cap Y$)

(8) A circle with a diameter length 8 cm. , then the length of its radius = ... cm. (4 *or* 5 *or* 6 *or* 16)

(9) $2.5 \times 100 =$ .... (250 *or* 25 *or* 0.25 *or* 0.025)

(10) 3 .... $\{33\}$ ($\subset$ *or* $\not\subset$ *or* $\in$ *or* $\notin$)

(11) $3 \frac{1}{8} \simeq$ .... (to the nearest hundredth)

(3.10 *or* 3.12 *or* 3.13 *or* 3)

(12) The number of the altitudes in any triangle = ...

(1 *or* 2 *or* 3 *or* 0)

(13) 3 .... the set of the odd numbers.

($\in$ *or* $\not\subset$ *or* $\notin$ *or* $\subset$)

(14) $\left(2 \frac{1}{2} + 7 \frac{1}{2}\right) \div \frac{1}{5} =$ .... (2 *or* 5 *or* 10 *or* 50)

42

2 *Complete each of the following :*

(15) $3.75 \times 1\,000 = $ ·············

(16) If $\{1, x\} = \{2, y\}$, then $x = $ ············ and $y = $ ············

(17) All radii of the same circle are ···············

(18) $3\frac{1}{2} + \frac{7}{12} = $ ···········

(19) The longest chord in a circle is the ·········

(20) $20.6354 \times 100 = $ ············ $\simeq$ ············ (to the nearest tenth)

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3 *Answer the following :*

(21) $\frac{1}{4} \times \frac{2}{3} = $ ···············   **(22)** $43.85 - 12.28 = $ ···············

(23) $6.8 \times 3.2 = $ ·············   **(24)** $1575 + 63 = $ ···············

(25) The length of a roll of cloth is 53.55 metres. It was divided into equal parts where the length of each part is 3.15 metres.
Find the number of these parts.

(26) Find all the subsets of the set X where $X = \{a, b\}$

(27) By using the opposite Venn diagram , find :

    [a] $X \cup Y$ **[b]** $X \cap Y$

    [c] $X - Y$ **[d]** $\acute{Y}$
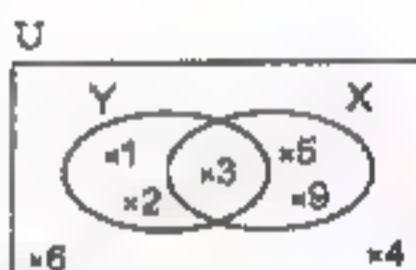
(28) Arrange the following numbers in an ascending order :

$$\frac{1}{4} , 0.8 , 0.4 \text{ and } \frac{1}{2}$$

(29) Draw the isosceles triangle ABC
in which BC = 4 cm. and AB = AC = 6 cm.
, then draw $\overrightarrow{AD}$ perpendicular to $\overleftrightarrow{BC}$

(30) A bag contains 5 red balls , 8 black balls and 7 white balls and all the balls are equal in size , if a ball is drawn randomly.
What is the probability that :

    [a] The drawn ball is white ?   **[b]** The drawn ball is black ?

    [c] The drawn ball is not red ?   **[d]** The drawn ball is white or black ?

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Final Examinations

Model 2

Answer the following questions :

1 **Choose the correct answer :**

(1) 12 ········ $\{0, 2, 4, 6, 8, \ldots\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(2) 50 days $\simeq$ ············ weeks (to the nearest week)

(7 or 6 or 5 or 4)

(3) 327 + 24 = 3.27 ÷ ··········   (24 or 2.4 or 0.24 or 240)

(4) The longest chord in the circle is called ··········

(diameter or radius or side or centre)

(5) The set $\{2, 4, 6, \ldots\}$ is ··········· set.

(a finite or an infinite or an empty)

(6) The altitudes of the obtuse-angled triangle intersect at one point ············ the triangle.

(inside or outside or at the vertex of the right angle)

(7) 48.2 × 3.7 ·········· 4.82 × 37   ($\neq$ or $<$ or $>$ or $=$)

(8) A circle of radius length 5 cm. , then its diameter length = ·········· cm.

(2.5 or 10 or 15 or 5)

(9) If $3 \notin \{x, x-1, x+1\}$, then $x =$ ············

(2 or 3 or 4 or 1)

(10) If $X \subset Y$, then $X \cup Y =$ ············   (X or Y or U or $\varnothing$)

(11) If $\{2, 5\} - \{4, x, 5\} = \varnothing$, then $x =$ ············

(2 or 4 or 5 or 6)

(12) 5.67 ÷ 2.4 = ··········· ÷ 24

(0.567 or 5.67 or 56.7 or 567)

(13) $\{7, 8\}$ ·········· $\{7, 9, 11\}$ ($\in$ or $\not\subset$ or $\notin$ or $\subset$)

(14) The decimal form of the fraction $\frac{3}{20}$ is ············

(0.15 or $\frac{1}{7}$ or 0.3 or $\frac{15}{21}$)

2 **Complete the following :**

(15) 20.857 $\simeq$ ············ (to the nearest $\frac{1}{100}$)

(16) 63 days = ············ weeks.

44

(17) If $7 \in \{2, x, 5\}$, then $x =$ ⋯⋯⋯

(18) The longest chord in the circle is ⋯⋯⋯

(19) $45.67 \div 100 =$ ⋯⋯⋯ $\simeq$ ⋯⋯⋯ (to the nearest $\frac{1}{100}$)

(20) The probability of the sure event = ⋯⋯⋯

③ ***Answer the following :***

(21) Using the opposite Venn diagram, find by listing method :

[a] $X \cap Y$ **[b]** $X \cup Y$

[c] $Y - X$ **[d]** $(X \cap Y)'$
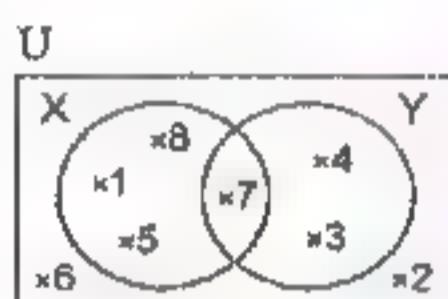
(22) Arrange the following numbers in an ascending order :

$$7 \frac{3}{5} \ , \ 5.56 \ , \ 7 \frac{3}{4} \text{ and } 6.2$$

⋯⋯⋯⋯⋯⋯⋯⋯

(23) In the experiment of throwing a die once, find the probability of appearing :

[a] An odd number smaller than 5   **[b]** An even prime number

[c] A number divisible by 3   **[d]** A number bigger than 6

(24) $17.5 \times 8.43 =$ ⋯⋯⋯ $\simeq$ ⋯⋯⋯ (to the nearest tenth)

(25) $420.353 - 67.51 =$ ⋯⋯⋯ $\simeq$ ⋯⋯⋯ (to the nearest hundredth)

(26) $\frac{1}{2} \div \frac{4}{5} =$ ⋯⋯⋯

(27) $6\,188 \div 221 =$ ⋯⋯⋯

(28) Draw a circle M of diameter length 6 cm. , then draw the diameter $\overline{BC}$ and the chord $\overline{BA}$ of length 3 cm.

(29) A barrel has 236.25 litres of oil. If we want to pack it in bottles where every bottle holds 0.75 litres. Find the number of bottles.

⋯⋯⋯⋯⋯⋯⋯⋯

(30) Write the relation between the two sets A and B which represent the shaded part of each shape :

[a]

⋯⋯⋯⋯

[b]

⋯⋯⋯⋯

45
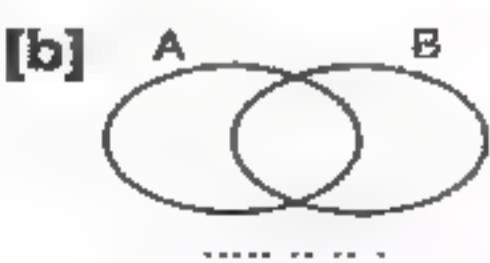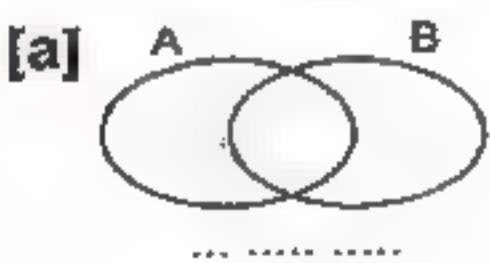
Final Examinations

Model 3

Answer the following questions :

1 **Choose the correct answer :**

(1) The probability of the impossible event = ··············

$$(\varnothing \quad or \quad zero \quad or \quad 0.5 \quad or \quad 1)$$

(2) The number of the altitudes of the triangle = ··········· ····

$$(0 \quad or \quad 1 \quad or \quad 2 \quad or \quad 3)$$

(3) $46.432 \simeq 46.43$ approximated to the nearest ···········

$$(ten \quad or \quad 0.1 \quad or \quad 0.01 \quad or \quad 0.001)$$

(4) If $\{x , 2\} = \{2 , 5\}$, then $x =$ ··············

$$(1 \quad or \quad 2 \quad or \quad 3 \quad or \quad 5)$$

(5) $\{1 , 2 , 3 , 4 , \cdots \}$ is ·············· set.

$$(a \ finite \quad or \quad an \ infinite \quad or \quad an \ empty)$$

(6) A circle is of diameter length 8 cm. , then its radius length = ·········· ······ cm.

$$(6 \quad or \quad 8 \quad or \quad 16 \quad or \quad 4)$$

(7) $\frac{4}{3} \times$ ·············· $= 1$ $\qquad (\frac{5}{4} \quad or \quad \frac{1}{4} \quad or \quad 0.75 \quad or \quad 0.8)$

(8) $\{4 , 3\} \cap \varnothing =$ ·············· $\qquad (\{4\} \quad or \quad \{3\} \quad or \quad \{4 , 3\} \quad or \quad \varnothing)$

(9) $0.3 \times 0.2 =$ ··· ·········· $\qquad (0.6 \quad or \quad 0.06 \quad or \quad 0.006 \quad or \quad 6)$

(10) When tossing a die once , the probability of getting a prime

number = ·············· $\qquad (\frac{5}{6} \quad or \quad \frac{1}{3} \quad or \quad \frac{1}{6} \quad or \quad \frac{1}{2})$

(11) $255 \div 25 = 2.55 \div$ ·············· $\qquad (2.5 \quad or \quad 0.25 \quad or \quad 25 \quad or \quad 2500)$

(12) 8 ·············· $\{18 , 808\}$ $\qquad (\in \quad or \quad \notin \quad or \quad \subset \quad or \quad \not\subset)$

(13) The longest chord in the circle is called ··············

$$(radius \quad or \quad side \quad or \quad diameter \quad or \quad centre)$$

(14) 245 hours $\simeq$ ··· ·········· days. $\qquad (11 \quad or \quad 10 \quad or \quad 12 \quad or \quad 9)$

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2 *Complete the following :*

(15) $\frac{1}{4} \times 4 = $ ....

(16) All diameters are .... in length in the same circle.

(17) 354 cm. = ... m.

(18) If $6 \in \{2x, 3, 5\}$, then $x = $ ....

(19) The probability of the certain event = ...

(20) 8.3 tons = ... kg.

---

3 *Answer the following :*

(21) $4.52 \times 0.3 = $ .... $\simeq$ .... (to the nearest 2 decimal place)

(22) $24.7 - 7\frac{1}{2} = $ .... $\simeq$ .... (to the nearest unit)

(23) $2.46 \div 0.6 = $ ....

(24) Arrange in an ascending order :

$$7.8 , 7.75 , 6\frac{1}{4} \text{ and } 6.4$$

....

(25) If $U = \{1, 2, 3, 4, 5, 6, 7, 8\}$
, $X = \{2, 4, 5, 6\}$ and $Y = \{4, 5, 7\}$
Represent these sets by Venn diagram
, then find :

[a] $X \cap Y$ 　　　　　　　 [b] $X \cup Y$

[c] $X - Y$ 　　　　　　　 [d] $X^{\backprime}$

(26) As throwing a fair die once , calculate the probability of :

[a] Appearing a number greater than 3 and less than 4

[b] Appearing an even prime number.

[c] Appearing an odd number.

(27) Find the area of the rectangle of 15.5 metres long and 7.5 metres wide.

....

(28) Draw the circle whose its diameter $\overline{BC}$
such that BC = 8 cm. and draw the chord $\overline{BA}$
its length = 4 cm. and draw $\overline{AC}$
, use the protractor to measure $\angle$ BAC

Final Examinations

(29) If the price of a piece of sweet is 2.25 pounds. What is the price of 25 pieces of the same kind ?

....

(30) If $\frac{2}{3} = \frac{16}{c}$, find the value of c

....

Model 4

Answer the following questions :

Choose the correct answer :

(1) $\frac{7}{9}$ .... $2\frac{1}{9}$ (< or > or = or ≥)

(2) If $a \in X$, then a X   (∈ or ∉ or ⊂ or ⊄)

(3) 736.592 ≅ 736.59 to the nearest ....

       (0.1 or 0.01 or 0.001 or 100)

(4) The probability of the sure event = ...

       (0 or 1 or 2 or 3)

(5) 75.3 ÷ 100 = ...   (753 or 7.53 or 7530 or 0.753)

(6) The number of altitudes of any triangle is ....

       (1 or 2 or 3 or 4)

(7) 1575 ÷ 63 = ...   (45 or 35 or 25 or 15)

(8) 58.236 × 100 .... 582.36   (< or > or = or ≤)

(9) The measure of the right angle = ...

       (80° or 90° or 180° or 140°)

(10) $\{17\}$ .... $\{1 , 7 , 17 , 27\}$ (∉ or ∈ or ⊂ or ⊄)

(11) The altitudes of the obtuse-angled triangle intersect at one point located .... the triangle.   (on or inside or outside)

(12) If $\{1 , 5 , 4\} = \{1 , 4 , x + 2\}$, then $x = $ ....

       (7 or 3 or 4 or 5)

(13) 325.4 ÷ 10 .... 3 254 ÷ 100   (< or = or ≠ or >)

(14) If $\frac{3}{5} = \frac{x}{20}$, then $x = $ ....   (7 or 12 or 15 or 18)

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2 *Complete the following :*

(15) 3.4 kg. = ············ gm.

(16) If $4 \in \{3 , x , 5\}$, then x = ············

(17) The longest chord in a circle is called ············

(18) If $\{3 , 6\} = \{y , 3\}$, then y = ············

(19) ············ $\times 2\frac{1}{5} = 1$

(20) $546.8 \div 53 \simeq$ ············ (to the nearest tenth)

---

3 *Answer the following :*

(21) $42.785 + 37\frac{1}{2}$ = ············

(22) $46 - 23.456 =$ ············ $\simeq$ ············ (to the nearest hundredth)

(23) $2.46 \div 0.6 =$ ············

(24) Draw a circle M with radius length 5 cm.
, draw $\overline{AB}$ is a diameter and $\overline{BC}$ is a chord
with length 8 cm. , draw $\overline{AC}$, then find :
[a] The length of $\overline{AC}$ [b] m ($\angle$ C)

(25) A box contains 20 cards numbered from 1 to 20 , if a card is drawn
randomly , calculate the probability of the drawn card is :
[a] An odd number   [b] A number divisible by 3
[c] A number less than 6

(26) From the opposite Venn diagram , find by the listing method :
[a] X ∪ Y
[b] X ∩ Y
[c] X − Y
[d] X́
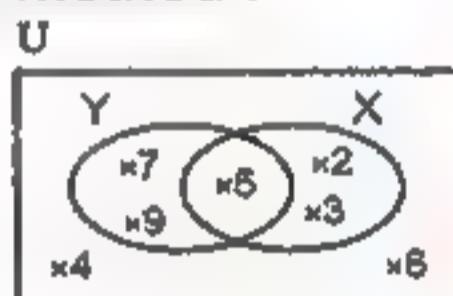
(27) Arrange the following numbers ascendingly :
$$14\frac{1}{4} , 15.025 , 14.375 \text{ and } 14\frac{1}{8}$$

············

(28) Draw the equilateral triangle ABC
whose side length = 5 cm. , then
draw $\overline{AD} \perp \overline{BC}$ and find :
[a] The perimeter of $\triangle$ ABC

[b] m ($\angle$ CAD) by measuring.

Final Examinations

(29) *In the opposite figure :*

Three circles of centres

M , N and E of radius

length 3 cm. for each.

Find the perimeter of △ MEN
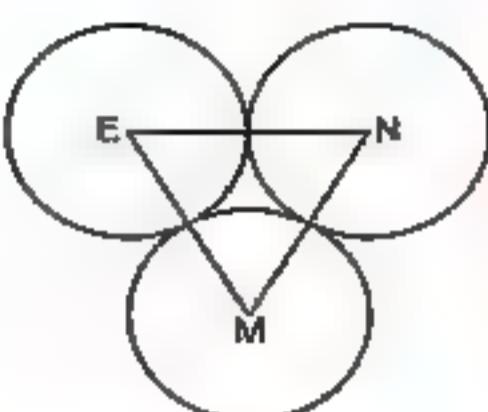
(30) If the length of a piece of cloth is 9.25 m. , 12 towels are made of it , the length of each towel is 0.75 m.

How many metres are remainder ?

Model 5

Answer the following questions :

1 Choose the correct answer :

(1) A ∪ À = ... (Ø **or** A **or** À **or** ∪)

(2) 2.7 × 3.5 .... 0.27 × 35 (≠ **or** > **or** = **or** <)

(3) 572.4 cm. to the nearest metre = ...

(6 **or** 50 **or** 6.8 **or** 572)

(4) The probability of impossible event is ....

(1 **or** 7 **or** 0 **or** Ø)

(5) The number of altitudes of the triangle = ...

(0 **or** 2 **or** 1 **or** 3)

(6) If $3 \in \{x + 2 , 5\}$, then $x =$ .... (1 **or** 2 **or** 3 **or** 4)

(7) $\{2 , 4\}$ .... $\{2 , 3 , 4\}$ (∈ **or** ∉ **or** ⊂ **or** ⊄)

(8) If the radius length of a circle is 5 cm. , then the length of the longest chord is .... cm. (5 **or** 10 **or** 2.5 **or** 7)

(9) The set of odd numbers is .... set.

(a finite **or** an infinite **or** an empty)

(10) $\frac{1}{2}$ .... $\frac{3}{4}$ (< **or** > **or** = **or** ≥)

(11) 10 halves .... 20 fifths (> **or** < **or** ≤ **or** =)

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(12) $7465.3 \div 100 =$ ⋯⋯⋯⋯

(74653 **or** 746.53 **or** 74.653 **or** 7.4653)

(13) If $\{3 , 4\} = \{1 + y , 4\}$, then $y =$ ⋯⋯⋯⋯

(7 **or** 4 **or** 2 **or** 5)

(14) The longest chord in a circle is the ⋯⋯⋯⋯

(diameter **or** center **or** radius **or** side)

---

2 **Complete the following :**

(15) $\{3 , 4 , 5\} \cup \{1 , 4 , 5\} =$ ⋯⋯⋯⋯

(16) $36.274 + 33.28 =$ ⋯⋯⋯⋯ $\simeq$ ⋯⋯⋯⋯ $\left(\text{to the nearest } \frac{1}{100}\right)$

(17) ABC is an equilateral triangle of side length 4.1 cm.

, then its perimeter = ⋯⋯⋯⋯ cm.

(18) $2\frac{3}{4} + 1\frac{3}{8} =$ ⋯⋯⋯⋯

(19) If $\{8 , 6 , 7\} = \{x , 8 , 7\}$, then $x =$ ⋯⋯⋯⋯

(20) $7.64 \times 0.93 \simeq$ ⋯⋯⋯⋯ (to the nearest thousandth)

---

3 **Answer the following :**

(21) $420.353 - 67.51 =$ ⋯⋯⋯⋯ $\simeq$ ⋯⋯⋯⋯ (to the nearest hundredth)

(22) $2\frac{4}{5} + \frac{7}{10} =$ ⋯⋯⋯⋯

(23) $3\ 744 \div 234 =$ ⋯⋯⋯⋯

(24) $\frac{2}{3} \times 15 =$ ⋯⋯⋯⋯

(25) Arrange in an ascending order :

$14\frac{1}{4}$, 15.225 , 14.375 , 15.025 and $14\frac{1}{8}$

⋯⋯⋯⋯

(26) Draw the triangle ABC where AB = 4 cm.

, BC = 5 cm. and CA = 6 cm.

, then draw its altitudes.

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Final Examinations

(27) Write all the subsets of the set X where X = {a , b , c} , what is the number of subsets ?

....

(28) A car covers equal distances in equal time. If this car covered 24.72 km. in one hour , how many km. are covered in $2\frac{1}{2}$ hours ?

....

(29) A box contains 22 cards numbered from 1 to 22 , if a card is drawn randomly , calculate the probability that the drawn card carries :

[a] An odd number.   [b] An even prime number.

[c] A number divisible by 7   [d] A number less than 6

(30) If U = {1 , 2 , 3 , 4 , 5 , 6 , 9 , 10} , X = {1 , 2 , 3 , 4 , 6}
, Y = {1 , 3 , 6 , 9}

Represent U , X and Y by Venn diagram , then find :

[a] X ∩ Y   [b] X ∪ Y

[c] X – Y

Model 6

Answer the following questions :

1 **Choose the correct answer :**

(1) $2\frac{1}{3}$ .... $\frac{9}{4}$ (> or < or ≤ or =)

(2) {4 , 5} .... {2 , 3 , 7}   (∈ or ∉ or ⊂ or ⊄)

(3) The number of altitudes of the triangle is ....

(zero or 1 or 2 or 3)

(4) The probability of the impossible event = ...

(∅ or zero or 0.50 or 1)

(5) The number of subsets of the set {4 , 5} equals ....

(2 or 3 or 4 or 5)

(6) If 4 ∈ {2 , x , 5} , then x = ...   (2 or 4 or 5 or 6)

(7) The decimal form of the fraction $\frac{3}{20}$ is ....

(0.15 or $\frac{15}{21}$ or $\frac{1}{7}$ or 0.3)

(8) 1.25 × 3.2 .... 32 × 12.5   (> or = or < or ≥)

(9) The quotient of dividing $2.25 \div 1.5 =$ ....

(1.5   *or*   15   *or*   0.15   *or*   500)

(10) $12.5 + 7.632 \simeq$ .... $\left(\text{to the nearest } \dfrac{1}{100}\right)$

(20.132   *or*   20.133   *or*   20.13   *or*   2.013)

(11) $225 \div$ .... $= 22.5$ (10   *or*   100   *or*   1000   *or*   100000)

(12) 3 .... the set of odd numbers.   ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(13) 7 .... the set of the days of the week.

($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(14) $\{5\} - \{1 , 2 , 5\} =$ ....

($\{5\}$ *or* $\{1 , 2\}$ *or* $\{1 , 2 , 5\}$ *or* $\varnothing$)

---

② Complete the following :

(15) ABC is an equilateral triangle of side length 5 cm. ,
then its perimeter = ... cm.

(16) If $X \subset Y$, then $X \cap Y =$ ....

(17) $327 \div 24 = 3.27 \div$ ....

(18) $\{3 , 4 , 5\} - \{1 , 2 , 5\} =$ ....

(19) $(278.25 - 8) \times 4.75 \simeq$ .... (to the nearest thousandth)

(20) $17.5 \times 8.43 =$ .... $\simeq$ .... (to the nearest tenth)

---

③ Answer the following :

(21) The side length of a square is 2.03 cm.
Find its area approximating to the nearest hundredth.

....

(22) Arrange the following numbers ascendingly :

$$\frac{3}{5} \ , \ \frac{3}{8} \ , \ 0.8 \text{ and } 0.75$$

....

(23) Draw a circle whose centre is M
and its diameter $\overline{AB}$ of length 10 cm.
, then draw chord $\overline{BC}$ with of length 8 cm.   (Don't remove the arcs)

Find : [a] The length of $\overline{AC}$ [b] m ($\angle$ C)

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هذا العمل حصري على موقع ذاكرولي التعليمي ولا يسمح بنشره في أي مواقع أخرى
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(24) A box contains 10 cards numbered from 1 to 10 , a card has been selected randomly. Calculate the probability of selecting :

[a] An even number. [b] A number divisible by 3

(25) Write all the subsets of X = {1 , 2}

(26) Using the opposite Venn diagram , find :

[a] X ∪ Y [b] X ∩ Y

[c] X̀ [d] X − Y
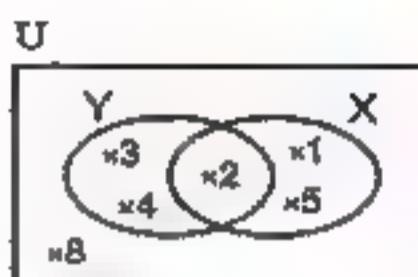
(27) $2\frac{3}{4} + 1\frac{3}{8} = $ ················

(28) 45.3 × 5.2 = ················

(29) If L.E. 487.5 distributed among some people and each of them takes L.E. 1.5 , find the number of persons.

(30) Write what is represented by the shaded part in each diagram :

[a]

[b]
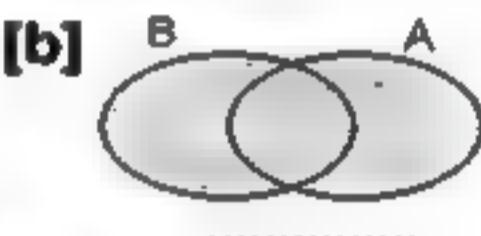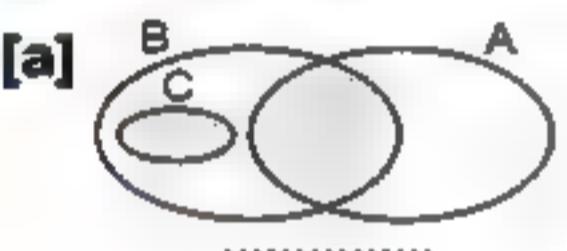
Model 7

Answer the following questions :

1 Choose the correct answer :

(1) 255 + 25 = 2.55 + ················ (2.5 *or* 0.25 *or* 25 *or* 2500)

(2) The longest chord in the circle is called ················

(a radius *or* a chord *or* a diameter *or* a diagonal)

(3) 55.241 × 100 ················ 552.41 × 10 (≠ *or* > *or* < *or* =)

(4) 7 ················ {17 , 77} (∈ *or* ∉ *or* ⊂ *or* ⊄)

(5) 254 hours ≃ ················ days. (11 *or* 10 *or* 12 *or* 9)

(6) If X ∩ Y = X , then X ················ Y (∈ *or* ∉ *or* ⊂ *or* ⊄)

(7) The number of altitudes of any triangle is ················

(2 *or* 3 *or* 4 *or* 5)

(8) ∅ ················ {3 , 4} (∈ *or* ∉ *or* ⊂ *or* ⊄)

(9) The probability of the impossible event is ·············

(0 **or** 1 **or** 0.5 **or** 0.3)

(10) $\{43\} \cap \{4 , 3\}$ ············ ($\{3\}$ **or** $\{4\}$ **or** $\{43\}$ **or** $\varnothing$)

(11) If the length of the radius of a circle is 5 cm. , then the length of the longest chord = ············ cm. (2 **or** 8 **or** 6 **or** 10)

(12) $5.3553 \times 1000 \simeq$ ············ (to the nearest whole number)

(535.6 **or** 535.5 **or** 5355 **or** 53.55)

(13) $12 \div \frac{4}{3} =$ ············ (9 **or** 16 **or** 6 **or** 8)

(14) $806.7 \div 100 =$ ············ (80.67 **or** 8.067 **or** 8.076 **or** 8.607)

2 **Complete the following :**

(15) $6\frac{1}{4} + 12\frac{1}{2} =$ ············

(16) $26.274 + 23.28 =$ ············ $\simeq$ ············ (to the nearest $\frac{1}{100}$)

(17) 39 days $\simeq$ ············ weeks (to the nearest week)

(18) $(3.7 \times 0.4) + 2.4 =$ ············

(19) $\{2 , 4 , 7\} \cup \{1 , 4 , 7\} =$ ············

(20) From the opposite circle :

[a] The chord of the circle M is ············

[b] The two radii of the circle M are ············ and ············

3 **Answer the following :**

(21) A circle of diameter length 8 cm. , then find its radius length.

....

(22) By using the opposite Venn diagram , find :

[a] $X \cap Y$ [b] $X \cup Y$

[c] $X - Y$ [d] $\acute{Y}$

(23) Arrange in a descending order :

$3\frac{1}{2}$, 5 , $4\frac{1}{3}$, 3.2 and $4\frac{2}{7}$

....

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Final Examinations

(24) Draw the triangle ABC in which

AB = 6 cm. and BC = AC = 5 cm. , then draw $\overline{CD} \perp \overline{AB}$ and

find the length of $\overline{CD}$

(25) If the price of one metre of cloth is 27.5 pounds , what is the price

of 3 metres ?

.. ..

(26) A box contains 5 white balls , 4 blue balls and 2 red balls , one ball

is chosen randomly , find the probability of getting :

[a] A blue ball.   [b] A red ball.

(27) 77.728 + 6.94 = ············· .

(28) 11.5749 $\simeq$ ············· $\left(\text{to the nearest } \dfrac{1}{1000}\right)$

(29) 5.73 × 2.6 = ·············

(30) 11183 ÷ 211 = ·············

Model 8

Answer the following questions :

1 Choose the correct answer :

(1) 63.578 $\approx$ 63.58 to the nearest ··············

$\left(\dfrac{1}{10} \text{ or } \dfrac{1}{100} \text{ or } \dfrac{1}{1000} \text{ or } \dfrac{1}{10000} \right)$

(2) $3\dfrac{1}{2} + \dfrac{7}{12}$ = ············ $\left(6 \text{ or } \dfrac{3}{18} \text{ or } \dfrac{50}{12} \text{ or } 4 \right)$

(3) 67.5 − 55.67 = ············   (117.4 *or* 17.14 *or* 11.83 *or* 118.3)

(4) 3 ·············· {13.303}   ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(5) The chord which passes through the centre of the circle is called ········

(a diameter *or* a radius *or* a diagonal *or* a side)

(6) The altitudes of ·············· -angled triangle intersect outside the triangle.

(right *or* acute *or* obtuse)

(7) {1 , 2} $\cup$ {2 , 3} = ··············

({2} *or* {1 , 3} *or* {1 , 2 , 3} *or* $\varnothing$)

(8) $355 \div 18 = 3.55 \div$ ⋯⋯ (1.8 *or* 18 *or* 0.18 *or* 1800)

(9) If $\{7 , 10\} = \{10 , x + 4\}$, then $x =$ ⋯⋯⋯⋯

(3 *or* 4 *or* 5 *or* 7)

(10) If $X \subset Y$, then $X \cap Y =$ ⋯⋯⋯ (X *or* Y *or* $\varnothing$ *or* U)

(11) The number of altitudes of the triangle is ⋯⋯

(0 *or* 1 *or* 2 *or* 3)

(12) $\{4 , 5\}$ ⋯⋯⋯ $\{2 , 3 , 7\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(13) 55.241×100 ⋯⋯⋯ 552.41×10 ($\neq$ *or* $>$ *or* $<$ *or* $=$)

(14) $\{7\}$ ⋯⋯⋯ $\{17 , 77\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

---

2 Complete the following :

(15) $\{2 , 4 , 6\} \cap$ the set of all factors of the number 2 equals ⋯⋯⋯

(16) $2\frac{3}{4} + 1\frac{3}{8} =$ ⋯⋯⋯

(17) To draw a circle of diameter length 12 cm. , then the opening distance of the compasses should be ⋯⋯⋯ cm.

(18) $251.76 - 38\frac{1}{8} =$ ⋯⋯⋯ (to the nearest 0.01)

(19) As throwing a metallic coin once then the sample space = ⋯⋯⋯ and the number of elements of the sample space = ⋯⋯⋯

(20) $45.37 + 28.3 =$ ⋯⋯⋯ $\simeq$ ⋯⋯⋯ $\left(\text{to the nearest } \frac{1}{10}\right)$

---

3 Answer the following :

(21) The price of a bar of chocolate is L.E. 2.75
What is the cost of 15 bars of the same kind ?

(22) If $U = \{1 , 2 , 3 , 4 , 5 , 6 , 7\}$
, $X = \{1 , 2 , 3 , 4\}$, $Y = \{1 , 2 , 5 , 6\}$
Represent these sets by Venn diagram , then find :
[a] $X \cup Y$ [b] $X - Y$ [c] $\acute{X}$

(23) Draw the triangle ABC in which
AB = 4 cm. , BC = 5 cm. and AC = 6 cm.

(24) A bag contains 5 white balls , 7 black balls and 3 red balls.
All balls are equally likely in size , a ball is selected randomly , find the probability of getting :
[a] A black ball. [b] A yellow ball.
[c] A red ball. [d] A white or red ball.

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(25) $38.5 \times 2.3 =$ ....

(26) $6.25 + 2.5 =$ ....

(27) $10277 \div 239 =$ ....

(28) $\frac{3}{7} \times 1\frac{5}{9} =$ ....

(29) Arrange ascendingly : $14\frac{1}{4}$, 15.025 , 14.375 and $14\frac{1}{8}$

....

....

(30) Find the perimeter of the rectangle whose length is 4.1 cm. and its width is 3.5 cm. , then calculate its perimeter.

....

....

Model 9

Answer the following questions :

1 Choose the correct answer :

(1) $4.25 \times 1000 =$ .... (425 **or** 42.5 **or** 42500 **or** 4250)

(2) The probability of the certain event is ....

(zero **or** 1 **or** 0.5 **or** $\varnothing$)

(3) The number of altitudes of any triangle is ....

(zero **or** 1 **or** 2 **or** 3)

(4) If $\{3 , 6\} = \{3 , x - 3\}$, then $x =$ ....

(2 **or** 3 **or** 6 **or** 9)

(5) ABC is an equilateral triangle of side length 4.5 cm. , then its perimeter = ... cm. (12 **or** 13.5 **or** 15 **or** 9)

(6) The quotient of dividing $2.25 \div 1.5 =$ ....

(1.5 **or** 15 **or** 0.15 **or** 500)

(7) The probability that the elephant flies = ...

(1 **or** zero **or** $\varnothing$ **or** $\frac{1}{2}$)

(8) 32 .... $\{3 , 2 , 5\}$ ($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(9) The longest chord in the circle is called ....

(radius **or** side **or** centre **or** diameter)

(10) $\varnothing$ .... $\{0 , 7\}$ ($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(11) If $X \subset Y$, then $X \cap Y =$ .... (X **or** Y **or** U **or** $\varnothing$)

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(12) A circle with diameter length = 8 cm.

, then its radius length = ·········· cm.　　(8　*or*　16　*or*　6　*or*　4)

(13) 39 days $\simeq$ ·········· weeks (to the nearest week)

(5　*or*　6　*or*　7 *or*　8)

(14) 86.4 ÷ 100 = ·········· 　　(864　*or*　8.64　*or*　8640　*or*　0.864)

---

2 **Complete each of the following :**

(15) 37.2664 $\simeq$ ·········· (to the nearest thousandth)

(16) $\{45\} - \{5\} =$ ··········

(17) $\frac{2}{7} + \frac{3}{7} =$ ··········

(18) As throwing a fair die once , then the probability of appearing
an even number = ··········

(19) 657 kilometres = ·········· metres

(20) 4.25 + ·········· = $8\frac{1}{2}$

---

3 **Answer the following :**

(21) $4\frac{19}{500} \simeq$ ·········· (to the nearest hundredth)

(22) $\frac{3}{4} \times \frac{4}{9} =$ ·········· (in the simplest form)

(23) 3.125 × 4.3 = ·········· $\simeq$ ·········· (to the nearest thousandth)

(24) 26.274 + 23.28 = ·········· $\simeq$ ·········· (to the nearest whole number)

(25) If X = $\{2 , 4 , 5 , 9\}$ and Y = $\{4 , 8 , 9\}$

Represent the two sets X and Y using
a Venn diagram , then find : $X \cap Y$

(26) If A = 13.225 and B = 12.45 , find the result of A + B to the nearest tenth.

··········

(27) Look at the opposite Venn diagram and find :

[a] $X \cup Y$ 　　　　　　　　[b] $X - Y$

[c] $X \cap Y$ 　　　　　　　　[d] $(X \cup Y)'$
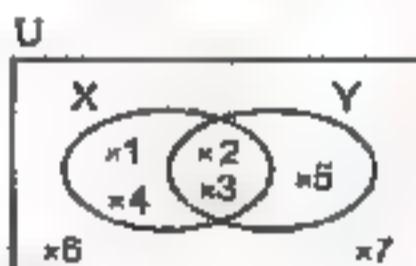
(28) If the price of one piece of sweet is 4.25 pounds , what is the cost price
of 36 pieces of the same kind ?

··········

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(29) Draw the equilateral triangle ABC
whose side length = 5 cm. and draw $\overline{AD} \perp \overline{BC}$
, then find the perimeter of △ABC

(30) As throwing a fair die once , what is the probability of getting :

[a] A number less than or equal to 6   [b] A number more than 6

[c] A number divisible by 3   [d] A prime number.

Model 10

Answer the following questions :

1 Choose the correct answer :

(1) 98.7 × 1000 = ...

(987.0   **or**   0.987   **or**   98700   **or**   9870)

(2) $\varnothing$ .... {0}   ($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(3) The length of the diameter = ...

($\frac{1}{2}$ r   **or**   r   **or**   2 r   **or**   3 r)

(4) Every triangle has .... altitudes.   (1 **or** 2 **or** 3 **or** 4)

(5) 12 .... {0 , 2 , 4 , 6 , ···}   ($\subset$ **or** $\not\subset$ **or** $\in$ **or** $\notin$)

(6) If M is a circle whose diameter length is 8 cm. where MA = 7 cm. ,
then the point A is located .... the circle.

(inside   **or**   outside   **or**   on)

(7) 355 + 18 = 3.55 + ...   (1800 **or** 18 **or** 108 **or** 0.18)

(8) If X ⊂ Y , then X − Y = ...   (X **or** Y **or** $\varnothing$ **or** ∪)

(9) 86.4 + 100 = ...   (86.4 **or** 0.864 **or** 8.64 **or** 8640)

(10) $\frac{1}{2} \times \frac{1}{2}$ = ...   (4 **or** 1 **or** $\frac{1}{4}$ **or** 2)

(11) If {3 , 4} = {y + 1 , 4} , then y = ...   (3 **or** 4 **or** 2)

(12) The longest chord in the circle is called a ....

(centre   **or**   diameter   **or**   radius   **or**   side)

(13) A ∩ Â = ...   (∪ **or** A **or** $\varnothing$ **or** Â)

(14) {1 , 3} .... {5 , 7 , 8}   ($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

2 *Complete the following :*

(15) $478.347 - 134.834 =$ ⋯⋯⋯ $\simeq$ ⋯⋯⋯ (to the nearest hundredth)

(16) If $X \subset Y$, then $X \cup Y =$ ⋯⋯⋯

(17) $\{2 , 4 , 6\} \cap$ the set of all factors of the number 2 = ⋯⋯⋯ .

(18) $2\frac{1}{4} \div 1\frac{1}{8} =$ ⋯⋯⋯

(19) 40 days $\simeq$ ⋯⋯⋯ weeks (to the nearest week)

(20) If $8 \in \{5 , 6 , x\}$, then $x =$ ⋯⋯⋯

---

3 *Answer the following :*

(21) $6630 \div 195 =$ ⋯⋯⋯   (22) $2\frac{1}{2} \times 1\frac{1}{3} =$ ⋯⋯⋯

(23) $104.32 + 3.26 =$ ⋯⋯⋯

(24) $64.43 \div 10 =$ ⋯⋯⋯ $\simeq$ ⋯⋯⋯ (to the nearest hundredth)

(25) $7.2145 \times 100 =$ ⋯⋯⋯ $\simeq$ ⋯⋯⋯ (to the nearest tenth)

(26) Write all subsets of the set $X = \{5 , 7\}$

⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯

(27) From the opposite Venn diagram , find :

[a] $X \cap Y$ [b] $X \cup Y$

[c] $X - Y$ [d] $\grave{Y}$
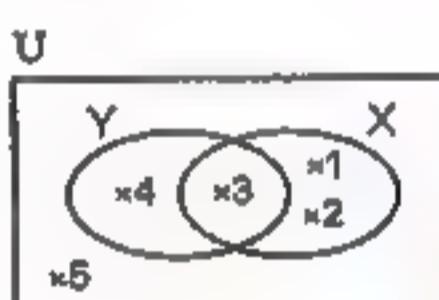
(28) If the price of one can of juice is L.E. 3.25

Find the price of 7 cans of juice.

⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯⋯

(29) Draw the equilateral triangle ABC whose
side length is 5 cm. , then find m ($\angle$ ABC)

(30) A fair die is thrown once. What is the probability of each of the
following event :

[a] Appearing an odd number.

[b] Appearing a number more than 4

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Model 11

Answer the following questions :

1 **Choose the correct answer :**

(1) 2 ············· {5 , 2 , 52}   ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(2) 55.241 × 100 ············· 552.41   ($\leq$ or > or < or =)

(3) The length of the diameter of the circle whose radius length
is 4 cm. = ············· cm.   (4 or 8 or 16 or 2)

(4) 806.7 ÷ 100 = ·············

(80.67 or 8.067 or 8067 or 80670)

(5) The number 83.7694 ≃ 83.77 to the nearest ·············

($\frac{1}{10}$ or $\frac{1}{100}$ or $\frac{1}{1000}$ or $\frac{1}{10000}$)

(6) If X ⊂ Y , then X ∩ Y = ·············   (X or Y or U or ∅)

(7) 327 ÷ 24 = 3.27 + ·············   (2.4 or 0.24 or 24 or 240)

(8) {3} ············· {303 , 13}   ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(9) The number of altitudes of the right-angled triangle is ·············

(1 or 2 or 3 or 0)

(10) The altitudes of the acute-angled triangle intersect ·············
the triangle.   (inside or outside or on)

(11) $\frac{1}{8}$ ≃ ············· (to the nearest hundredth)

(0.125 or 0.12 or 0.13 or 1.0)

(12) Probability of certain event is ·············

(∅ or 1 or 0 or 2)

(13) Any line segment connects between any two points on the circle
is called ·············   (centre or diameter or radius or chord)

(14) $1\frac{1}{2} \div \frac{1}{2}$ = ·············   (3 or $\frac{3}{4}$ or 12 or 6)

2 *Complete the following :*

(15) ∅ .... {a , b}

(16) 6.35 + 17.025 ≃ .... to the nearest $\frac{1}{100}$

(17) It is . . .. that the sun rises from the west.

(18) As throwing a fair die once , then the probability of appearing a number less than 3 is ....

(19) The altitudes of the right-angled triangle intersect at ....

(20) From the opposite figure :

[a] $\overline{BC}$ is called .... in the circle M

[b] .... is a diameter.
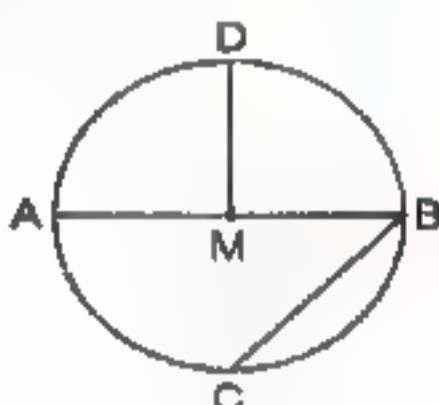
3 *Answer the following :*

(21) 3.52 × 4.6 = ...   (22) $2\frac{1}{2} \times 1\frac{1}{5}$ = ...

(23) 5674.9 + 1000 = ...   (24) 860.7 + 1.9 = ...

(25) The price of a bar of chocolate is L.E. 2.75 , what is the cost of 15 bars of the same kind ?

....

(26) Arrange the following numbers in an descending order :

$$\frac{1}{4} , 0.8 , 0.4 \text{ and } \frac{1}{2}$$

....

(27) From the opposite Venn diagram , complete :

[a] X ∩ Y   [b] X ∪ Y

[c] X – Y   [d] $\tilde{X}$
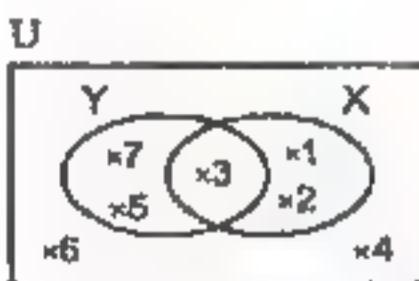
(28) Write all the subsets of the set X where X = {5 , 6 , 7}

....

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(29) A bag contains 5 white balls , 7 black balls and 3 red balls. All balls are equal in size. A balls is drawn randomly , calculate the probability of the drawn ball is :

[a] Black.

[b] Yellow.

[c] White or red.

[d] Not red.

(30) Draw △ ABC where AB = AC = 5 cm. and BC = 4 cm. , then draw $\overrightarrow{AD}$ perpendicular from A to $\overleftrightarrow{BC}$

Model 12

Answer the following questions :

1 Choose the correct answer :

(1) The probability of the impossible event = ·············

(0.5 *or* 1 *or* 0 *or* ∅)

(2) 2.7 × 3.5 ············· 0.27 × 35

(> *or* < *or* ≠ *or* =)

(3) ∅ ············· {8 , 7}

(∈ *or* ∉ *or* ⊂ *or* ⊄)

(4) If {3 , 6} = {3 , x} , then x = ·············

(2 *or* 9 *or* 3 *or* 6)

(5) If X ⊂ Y , then X ∩ Y = ·············

(U *or* X *or* Y *or* ∅)

(6) 56.7 ÷ ············· = 0.0567

(10 *or* 100 *or* 1000 *or* 10000)

(7) {5} ············· {55 , 15}

(∈ *or* ∉ *or* ⊂ *or* ⊄)

(8) The right-angled triangle has ············· altitudes.

(0 *or* 1 *or* 2 *or* 3)

(9) 38 days ≃ ············· week (to the nearest week)

(4 *or* 5 *or* 6 *or* 7)

(10) 7 ············· {3 , 5 , 7 , 8}

(∈ *or* ∉ *or* ⊂ *or* ⊄)

(11) 255 + 2.5 = ·············

(10.5 *or* 102 *or* 12 *or* 120)

(12) 34596 gm. ≃ ············· kg.

(35 *or* 346 *or* 3460 *or* 34)

(13) zero ············· ∅

(∈ *or* ∉ *or* ⊂ *or* ⊄)

(14) {1 , 7} ············· {1 , 2 , 3 , 4 , ...}

(∈ *or* ∉ *or* ⊂ *or* ⊄)

2 *Complete the following :*

(15) The longest chord in the circle is called ....

(16) $\{1 , 3\} \subset \{1 + y , 4 , 1\}$, then : y = ...

(17) 572.3 cm. = ... m. (to the nearest metre)

(18) If $A \subset B$, then : A − B = ...

(19) $6\frac{1}{4} + 12\frac{1}{2}$ = ...

(20) $26.274 + 23.28$ = ... $\simeq$ .... $\left(\text{to the nearest } \frac{1}{100}\right)$

---

3 *Answer the following :*

(21) $77.728 \div 6.94$ = ...   (22) $11183 \div 211$ = ...

(23) $2\frac{1}{2} \times 3\frac{1}{4}$ = ...   (24) 3.5×2.7 = ...

(25) $56.748 − 29.6666$ = ... $\simeq$ .... $\left(\text{to the nearest } \frac{1}{1000}\right)$

(26) If the universal set U = the set of all factors of the number 12
and X = $\{1 , 3 , 2 , 6\}$ and Y = $\{1 , 4 , 6 , 3\}$
Draw a Venn diagram which represent the sets U , X and Y
, then find :

[a] $X \cup Y$ [b] $X \cap Y$ [c] $\acute{X}$

(27) A die is rolled once and the number of points on the upper face is
observed. Find the probability of appearing :

[a] A number greater than or equal to 3

[b] An odd prime number.

(28) Rearrange the following numbers ascendingly :

$$\frac{3}{2} , \frac{3}{7} , \frac{3}{5} , \frac{3}{8} \text{ and } \frac{3}{4}$$

....

(29) Draw the triangle ABC in which
AB = 4 cm. , BC = 6 cm. and CA = 8 cm.
, then draw a circle whose centre
is B and its radius length is equal to 4 cm.
, then complete the following :

[a] The point A is located .... the circle.

[b] The point C is located .... the circle.

[c] The .... is called the radius of the circle.

Final Examinations

(30) Find the area of the square whose side length is 5.02 m. approximating the result to the nearest tenth.

Model 13

Answer the following questions :

1 *Choose the correct answer :*

(1) 7465.3 ÷ 100 = ············

(74653 **or** 746.53 **or** 74.653 **or** 7.4653)

(2) 2.25 ÷ 1.5 = ············

(105 **or** 1.5 **or** 15 **or** 0.15)

(3) X – X = ············

(zero **or** {0} **or** {1} **or** ∅)

(4) The altitudes of the triangle intersect at ············

(one point **or** two points **or** three points **or** four points)

(5) 3.75 × 1000 = ············

(37.50 **or** 375 **or** 3750 **or** 375000)

(6) The probability of the impossible event = ············

(0 **or** 1 **or** 0.5 **or** ∅)

(7) If $\{4 , x + 2\} = \{7 , 4\}$, then x = ············

(4 **or** 5 **or** 7 **or** 9)

(8) The longest chord in the circle is called ············

(radius **or** centre **or** side **or** diameter)

(9) 255 ÷ 25 = 2.55 ÷ ············

(25 **or** 0.25 **or** 2.5 **or** 2500)

(10) 5.4 tons = ············ kg.

(5400 **or** 540 **or** 0.54 **or** 54000)

(11) 8 ············ {7 , 5 , 8}

(∈ **or** ∉ **or** ⊂ **or** ⊄)

(12) ∅ ············ {0 , 1 , 3}

(∈ **or** ∉ **or** ⊂ **or** ⊄)

(13) 12 ············ The set days of the week.

(⊂ **or** ∈ **or** ⊄ **or** ∉)

(14) 10 halves ············ 20 fifths.

(≤ **or** > **or** < **or** =)

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2 *Complete the following :*

(15) The diameter of a circle is a chord that crosses the ··············

(16) $\{1 , 2\} \cup \{2 , 3\} =$ ··············

(17) $\{5 , 7\} - \{1 , 2\} =$ ··············

(18) 4 tens + 8 tenths = ··············

(19) If $X \cap Y = \varnothing$, then X and Y are ··············

(20) The probability of the sure event = ··············

---

3 *Answer the following :*

(21) $3 \frac{1}{5} \times 15 =$ ·············· .   (22) $5.766 \simeq$ ·············· $\left(\text{to the nearest } \frac{1}{100}\right)$

(23) $7.4 \times 2.2 =$ ··············   (24) $66.7 \div 1000 =$ ··············

(25) $12474 + 231 =$ ··············

(26) Using the opposite Venn diagram , find :

   [a] $A \cup B$ **[b]** $A \cap B$

   [c] $B - A$ **[d]** $\grave{B}$
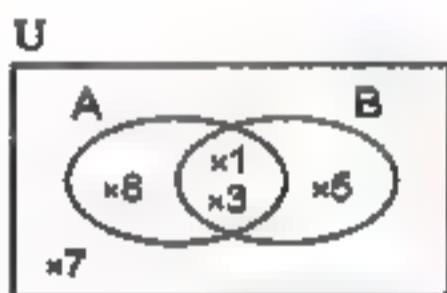
(27) Draw the triangle ABC in which

   AB = BC = CA = 6 cm. , then draw $\overline{AD} \perp \overline{BC}$

   , then find the length of $\overline{BD}$ and m ($\angle$ B)

(28) Arrange in a descending order : $7 \frac{1}{6}$, 5.3 , $7 \frac{1}{11}$, $5 \frac{4}{7}$ and 6

···

(29) Write all the subsets of the set X = $\{a , b\}$

   What is the number of subsets of the set X ?

···

(30) A bag contains 5 white balls , 9 red balls and 6 black balls ,

   all the balls are identical and equal in size , if a ball is drawn

   randomly. What is the probability that the drawn ball is :

   [a] White.   **[b]** Not white.   **[c]** White or red.

Final Examinations

Model 14

Answer the following questions :

1. **Choose the correct answer :**

(1) $\{4 , 5\}$ .... $\{2 , 3 , 7\}$ $(\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset)$

(2) The number of altitudes of the triangle is .... (zero *or* 1 *or* 2 *or* 3)

(3) $3\frac{1}{2} + \frac{7}{12} =$ .... (6 *or* $\frac{18}{2}$ *or* $\frac{50}{12}$ *or* 4)

(4) If the length of the radius of a circle is 5 cm. , then the length of the longest chord = ... cm. (2 *or* 8 *or* 6 *or* 10)

(5) 254 hours ≃ .... days. (11 *or* 10 *or* 12 *or* 9)

(6) In the opposite figure :

The corresponding base of the altitude $\overline{AD}$

is ....
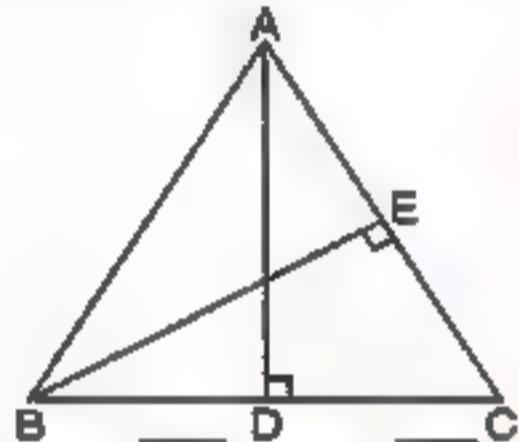
$(\overline{AB}$ *or* $\overline{BC}$ *or* $\overline{CA}$ *or* $\overline{BE})$

(7) 55.241 × 100 .... 552.41 × 10 $(<$ *or* $=$ *or* $>$ *or* $\neq)$

(8) If $\{3 , 4\} = \{1 + y , 4\}$, then y = ...

(7 *or* 4 *or* 2 *or* 5)

(9) 2.7 × 3.5 .... 0.27 × 35 $(\neq$ *or* $<$ *or* $=$ *or* $>)$

(10) 12.5 + 7.632 ≃ .... $\left(\text{to the nearest } \frac{1}{100}\right)$

(20.132 *or* 20.133 *or* 20.13 *or* 2.013)

(11) 7 .... $\{17 , 77\}$ $(\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset)$

(12) ∅ .... $\{2 , 4\}$ $(\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset)$

(13) The probability of the certain event = ...

(0 *or* 0.5 *or* 1 *or* 2)

(14) If X − Y = X , then X ∩ Y = ... (X *or* Y *or* U *or* ∅)

2. **Complete the following :**

(15) Any line segment whose endpoints are on the circle is called ....

(16) The probability of an impossible event = ...

68

(17) The midpoint of any diameter in a circle is .... of the circle.

(18) $57.35 + 21.53 =$ .... $\simeq$ .... (to the nearest tenth)

(19) $\{2 , 3 , 6 , 12\} \cap$ the set of factors of the number $6 =$ ....

(20) If $6 \in \{3 , 5 , 2x\}$, then $x =$ ....

---

3 *Answer the following :*

(21) $6.7898 - 4.247 =$ .... $\simeq$ .... (to the nearest thousandth)

(22) $\frac{5}{7} \times 1 \frac{2}{5} =$ ....

(23) $7885 + 1000 =$ ....

(24) $26272 \div 821 =$ ....

(25) What is the number which if multiplied by 0.5 the product will be 33.86

....

(26) Look at the opposite Venn diagram and find :

    [a] $X \cap Y$

    [b] $X \cup Y$

    [c] $X - Y$

    [d] $Y`$

(27) Draw the triangle ABC in which

    AB = BC = 6 cm. and m ($\angle$ B) = 120°

    , then draw $\overrightarrow{AD} \perp \overrightarrow{BC}$ which intersects it at D

    , then find the length of $\overline{AD}$

(28) A bag contains 3 white balls , 7 red balls , and 5 yellow balls. All the balls are equal in size. If a ball is drawn randomly :

    [a] What is the probability that the drawn ball is white.

    [b] What is the probability that the drawn ball is not red.

(29) A car covers equal distances in equal times. If this car covered 24.73 km. in one hour , how many km. are covered in $2 \frac{1}{2}$ hours?

....

(30) A metal coin was thrown once , find the probability of appearing a head.

....

Final Examinations

Model 15

Answer the following questions :

1 **Choose the correct answer :**

(1) The probability of the impossible event = ...

($\varnothing$ **or** zero **or** 1 **or** $\frac{1}{3}$)

(2) The number of the altitudes of the triangle = ...

(0 **or** 1 **or** 2 **or** 3)

(3) If $X \subset Y$, then $X \cap Y$ = ...

(X **or** Y **or** $\varnothing$ **or** U)

(4) $46.432 \simeq 46.43$ approximated to the nearest ....

(ten **or** 0.1 **or** 0.01 **or** 0.001)

(5) If $\{3 , 4\} = \{1 + y , 3\}$, then y = ...

(7 **or** 4 **or** 2 **or** 3)

(6) 40 days $\simeq$ .... weeks.　　(4 **or** 6 **or** 5 **or** 7)

(7) $17.947 \simeq$ .... (to the nearest hundredth)

(17.948 **or** 17.95 **or** 17.90 **or** 17.94)

(8) $\{2 , 3\}$ .... $\{5 , 7 , 8\}$　　($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(9) 95.3×100 = ...　　(0.953 **or** 953 **or** 9530 **or** 9.53)

(10) As throwing a die once , then the probability of appearing a number
less than 3 = ... （$\frac{1}{6}$ **or** $\frac{1}{2}$ **or** $\frac{1}{3}$ **or** $\frac{2}{5}$)

(11) $1.7 \div 10$ = ...　　(17 **or** 0.17 **or** 1.7 **or** 0.017)

(12) 254 hours $\simeq$ .... days.　　(11 **or** 10 **or** 12 **or** 9)

(13) The chord which passes through the centre of the circle is called ....

(a diameter **or** a radius **or** a centre **or** a side)

(14) $255 \div 25 = 2.55 \div$ ....　　(2.5 **or** 0.25 **or** 25 **or** 2500)

---

2 **Complete the following :**

(15) If $\{8 , 6 , 7\} = \{x , 8 , 7\}$, then x = ...

(16) $7.64 \times 0.93 \simeq$ .... (to the nearest thousandth)

70

(17) The probability of the certain event = ·············· .

(18) 8.3 tons = ·············· kg.

(19) $\frac{7}{8} \simeq$ ·············· (to the nearest hundredth)

(20) $\{1 , 2\} \cup \{2 , 3\}$ = ······

3 *Answer the following :*

(21) 8 096 ÷ 253 = ··············   **(22)** $5\frac{1}{3} \times 9$ = ···········

(23) $4\frac{1}{2} + 1.5$ = ············

(24) Which is greater $\frac{5}{8}$ or 0.5734 ?

Find the difference between the two fractions.

....

(25) If the universal set U = the set of all factors of the number 12
, X = $\{1 , 3 , 2 , 6\}$ and Y = $\{1 , 4 , 6 , 3\}$
Draw Venn diagram which represents the sets U , X and Y
, then find : $X \cup Y$, $X - Y$, $\acute{Y}$, $(\acute{X})$

(26) Write all the subsets of the set X = $\{a , b\}$, what is the number of
subsets ?

....

(27) Draw △ ABC where AB = 4 cm.
, BC = 6 cm. and CA = 8 cm.
, then draw a circle of centre B
and its radius length = 4 cm.
From the drawing complete :

[a] The point A lies ·············· the circle.

[b] The point C lies ·············· the circle.

[c] $\overline{AB}$ is called ·············· in the circle.

(28) Find the area of the rectangle of 15.5 meters length and 7.5 meters
width.

....

(29) When rolling a regular number cube. What is the probability of getting :

[a] A number more than 6 ?

[b] A number less than or equal to 6 ?

What is the name of the event in each case ?

....

71

Final Examinations

(30) A sample of 40 balls , 5 are red and the rest is in different colours. What is the predicted number of red balls when the sample contains 400 balls ?

....

Model 16

Answer the following questions :

1 Choose the correct answer :

(1) 55.241 × 100 .... 552.41 × 10   (> *or* = *or* < *or* ≠)

(2) △ ABC is an equilateral triangle of side length 5 cm. ، then its perimeter = ... cm.   (20 *or* 25 *or* 8 *or* 15)

(3) 355 + 18 = 3.55 + ...   (0.18 *or* 1.8 *or* 18 *or* 180)

(4) 3.658 ≃ 3.66 approximated to the nearest ....

$(100 \ or \ \frac{1}{10} \ or \ \frac{1}{100} \ or \ \frac{1}{1000})$

(5) If $X \subset Y$, then $X \cap Y$ = ...   (U *or* X *or* Y *or* ∅)

(6) The probability of impossible event is ....

(1 *or* ∅ *or* zero *or* 7)

(7) The number of the altitudes of the triangle is ....

(3 *or* 2 *or* 1 *or* zero)

(8) ∅ .... {3 ، 5}   (∈ *or* ∉ *or* ⊂ *or* ⊄)

(9) The measure of right angle .... The measure of obtuse angle

(> *or* < *or* = *or* ≥)

(10) 3.002 kilograms = ... grams.

(30.02 *or* 0.3002 *or* 300.2 *or* 3002)

(11) {3 ، 7} .... {1 ، 3 ، 5 ، 7}   (∈ *or* ∉ *or* ⊂ *or* ⊄)

(12) The smallest fraction from the following is ....

$(\frac{1}{3} \ or \ \frac{2}{5} \ or \ \frac{5}{8} \ or \ \frac{2}{9})$

(13) $1 \frac{1}{2} + \frac{1}{4}$ = ... $(2 \ or \ 6 \ or \ \frac{3}{8} \ or \ 12)$

(14) 35.241 × 100 = 3524.1   (✔ *or* ✗)

72

2 **Complete the following :**

(15) The longest chord in a circle is ··············

(16) If $6 \in \{3 , 5 , 2x\}$, then $x =$ ··············

(17) $12\frac{1}{2} + 6\frac{1}{4} =$ ··············

(18) The midpoint of any diameter in a circle is ··············· of the circle.

(19) $5.0452 \simeq$ ············ (to the nearest hundredth)

(20) As throwing a fair die once , then the probability of getting a number less than 3 = ··············

3 **Answer the following :**

(21) $5.7258 \times 9 \simeq$ ··············· (approximate to the nearest thousandth)

(22) $18.768 + 8 \simeq$ ··············· (approximate to the nearest hundredth)

(23) $13409 + 253 =$ ···············

(24) $\{2 , 5 , 8\} - \{3 , 5 , 7\} =$ ···············

(25) $2.5 \times 4.42 =$ ···············

(26) If the universal set U = $\{x : x$ is an odd number less than $15\}$
, X = $\{1 , 3 , 5\}$, Y = $\{1 , 5 , 9 , 13\}$
Draw a Venn diagram which represents the sets U , X , Y
, then find : $X \cap Y$, $X - Y$ and $\acute{Y}$

(27) Find the product of 23.49×4.2 and approximate it to the nearest hundredth.

(28) A barrel has 236.25 kgs of oil , if we want to pack it in bottles where every bottle holds 0.75 kgs. Find the number of bottles.

(29) Draw a circle M whose radius length
is equal to 3.5 cm. , then draw its
diameter $\overline{AB}$ and label any point C $\in$ the circle.
Draw the triangle ABC and
draw $\overline{CD} \perp \overline{AB}$ where D $\in \overline{AB}$
, find the length of $\overline{CD}$?

Final Examinations

(30) As throwing a fair die once , calculate the probability of :

[a] Appearing a number greater than 6

[b] Appearing an even number greater than 4

[c] Appearing an even prime number.

Model 17

Answer the following questions :

1 **Choose the correct answer :**

(1) 32 ············· {3 , 2 , 5}   ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(2) A letter of the word "ALEXANDRIA" is selected randomly , then the probability of selecting the letter "A" = ···············

$\left(\dfrac{3}{7} \text{ or } \dfrac{3}{10} \text{ or } \dfrac{1}{3} \text{ or } \dfrac{1}{2} \right)$

(3) $\varnothing$ ············· {0 , 7}   ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(4) The number of the altitudes of the acute-angled triangle is ···············

(1 or 2 or 3 or 0)

(5) 63.594 $\approx$ 63.6   (to the nearest ···············)

(0.1 or 0.01 or 0.001 or 10)

(6) $3\dfrac{1}{2} + \dfrac{7}{12}$ = ···············   (6 or $\dfrac{18}{2}$ or $\dfrac{50}{12}$ or 4)

(7) {3} ············· {303 , 13}   ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(8) The chord which passes through the centre of the circle is called ···············

(a diameter or a radius or a centre or a side)

(9) 135.42 + 100 = ···············

(13542 or 13.542 or 1.3542 or 1354.2)

(10) The probability of success of a pupil in an exam is $\dfrac{4}{5}$, then the probability of his failing is ··············· $\left(\dfrac{1}{2} \text{ or } \dfrac{1}{5} \text{ or } \dfrac{1}{4} \text{ or } \dfrac{2}{9} \right)$

(11) 14 . 376 + 15.75 $\approx$ ··············· (to the nearest hundredth)

(30.131 or 30.13 or 30.12 or 30.10)

(12) If {5 , 3} − {3 , x} = $\varnothing$, then x = ···············

(0 or 1 or 5 or 3)

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(13) In the opposite figure :

.... is a chord in the circle M
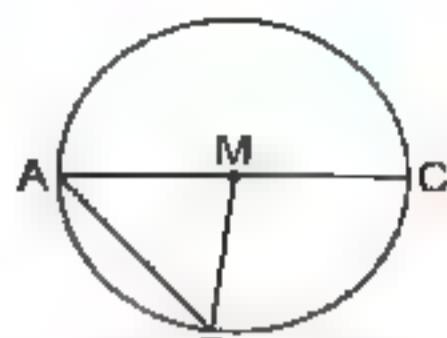
$(\overline{MC}$ *or* $\overline{AM}$ *or* $\overline{AB}$ *or* $\overline{MB})$

(14) $2 \frac{1}{4} \times 1 \frac{2}{3} =$ .... $(4 \frac{1}{4}$ *or* $3 \frac{3}{4}$ *or* $3 \frac{7}{12}$ *or* $2 \frac{2}{12})$

② Complete each of the following :

(15) $2.5781 \simeq$ .... (approximate to the nearest hundredth)

(16) When drawing a paper out of five identical papers numbered
1 , 2 , 3 , 4 and 5 , therefore the probability that the drawn paper
has a prime number = ...

(17) X , Y are two sets where $X \subset Y$, then $X \cap Y =$ ....

(18) If M is a circle of radius length 6 cm. and MA = 6 cm. , then the
point A located .... the circle M

(19) If $\{ 3 , 5 \} = \{ 1 + x , 3 \}$, then $x =$ ....

(20) To draw a circle whose diameter = 7.2 cm. , set the compasses to
a length equal to .... cm.

③ Answer the following :

(21) $3.73 \times 0.8 =$ ....

(22) $18705 + 435 =$ ....

(23) $178.15 - (9 \times 3.2) \simeq$ .... (approximate to the nearest tenth).

**(24)** $(471.72 + 8.28) + 1.5 =$ ....

(25) A man bought a TV for L.E. 2000 , He paid L.E. 440 of its cost and
paid the remainder on monthly instalments , each of them is equal
to L.E. 32.5 Find the number of instalments.

....

(26) Look at the opposite Venn diagram and find :

[a] A ∪ B

[b] A – B

[c] (A ∪ B)ʼ

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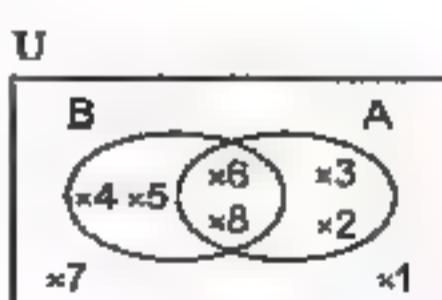
Final Examinations

(27) Draw a circle whose centre is M
and radius length = 3 cm. Draw diameter $\overline{AB}$
Label the points C , D and E where MC = 2 cm.
, MD = 5 cm. and ME = 3 cm. , then complete :

[a] $\overline{ME}$ is called ············· [b] $\overline{AE}$ is called ·············

[c] D is located ············· the circle.

(28) A family consumes 6.5 kgs of meat monthly where the cost of 1 kg
of meat is L.E. 138.5 Find what the family pays. Approximate to the
nearest pound.

···

(29) Draw the triangle ABC in which

AB = 3 cm. , BC = 4 cm. , CA = 5 cm.

, then draw perpendiculars from its vertices to the opposite sides
and label the point of their intersection.

(30) Arrange ascendingly : $\frac{2}{3}$, $\frac{3}{4}$, $\frac{1}{2}$ and $\frac{1}{6}$

···

Model 18

Answer the following questions :

1 *Choose the correct answer :*

(1) 1.4×8.6 ············· 0.86×14 (> or < or = or ≠)

(2) If $\{2 , 7\} = \{x + 3 , 2\}$, then x = ············· (2 or 4 or 5 or 7)

(3) $\frac{1}{8} \simeq$ ············· (to the nearest $\frac{1}{100}$) (0.12 or 0.13 or 0.1 or 1.2)

(4) $4.83 + 2.1 \simeq$ ············· (to the nearest tenth) (6.9 or 7 or 6.8 or 6)

(5) $7 \in \{17 , 77\}$ (✔ or ✗)

(6) $\{25\}$ ············· $\{2 , 5\}$ (∈ or ∉ or ⊂ or ⊄)

(7) The number of altitudes of in any triangle = ············· (1 or 2 or 3 or 4)

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(8) $5\frac{1}{2} + 1\frac{3}{8} =$ ....   (2   *or*   4   *or*   8   *or*   6)

(9) The probability of a certain event = ...

(0   *or*   1   *or*   2   *or*   3)

(10) The number of subsets of the set $\{4 , 5\}$ equals ....

(2   *or*   3   *or*   4   *or*   5)

(11) Which of these is 89.0989 approximated to the nearest hundredth ?

(100   *or*   90   *or*   89.1   *or*   89.9)

(12) $\varnothing$ .... $\{1 , 2\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(13) If $X \subset Y$, then $X \cup Y =$ ....   (X *or* Y *or* $\varnothing$ *or* $\bar{X}$)

(14) $54.593 \simeq 54.6$ to the nearest ....

($\frac{1}{10000}$ *or* $\frac{1}{10}$ *or* $\frac{1}{100}$ *or* $\frac{1}{1000}$)

---

2   **Complete the following :**

(15) $\{5 , a , 8\} = \{b , 9 , 8\}$, then a = ... , b = ...

(16) $278.25 - (8 \times 4.5) \simeq$ .... (to the nearest tenth)

(17) The triangle which the measures of its angles are 50° , 90° and 40° is called .... -angled triangle.

(18) In the opposite figure :

     [a] .... is called a diameter in the circle M

     [b] $\overline{YZ}$ is called a .... in the circle M

     [c] Each of $\overline{XM}$, $\overline{YM}$ and $\overline{ZM}$ is called .... in the circle M
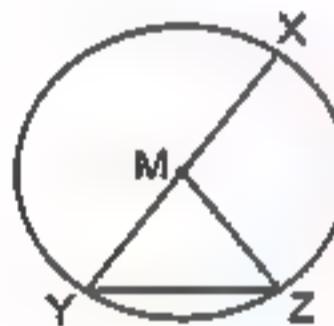
(19) $\{1 , 2 , 3 , 4\} \cap$ The set of the prime numbers = ...

(20) The probability that Khaled wins a game is $\frac{2}{3}$, then the probability of losing the same game is ....

---

3   **Answer the following :**

(21) $471.72 - 351.4 =$ ....   (22) $37.4 \times 6.8 =$ ....

(23) $54.7 + 100 =$ ....   (24) $4773 + 129 =$ ....

(25) Find the area of rectangle whose length is 6.25 cm. and its width is 2.6 cm.

....

Final Examinations

(26) Draw the triangle ABC in which AB = 7 cm. , BC = 6 cm. and AC = 6 cm.

....

(27) By using the opposite figure , find :

[a] A ∪ B   [b] A − B

[c] A ∩ B   [d] B − A

[e] À   [f] B̀
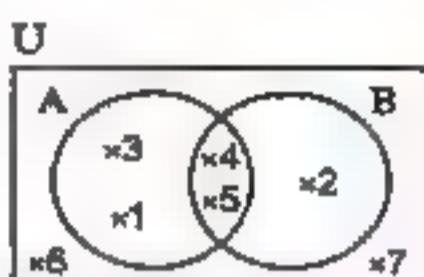
(28) Arrange in a descending order : $14\frac{1}{4}$, 15.025 , 14.375 and $14\frac{1}{8}$

....

(29) A box contains 5 white balls , 9 red balls and 6 black balls , if a ball is drawn randomly. Find the probability that the drawn ball is :

[a] White ball   [b] Not white ball.   [c] Yellow ball.

(30) A car covers equal distances in equal times. If this car covered 24.73 km. in one hour. How many km. are covered in $2\frac{1}{2}$ hours ?

....

Model 19

Answer the following questions :

1 Choose the correct answer :

(1) If {4 , 8} = {1 + y , 4} , then y = ·············

(3 or 4 or 6 or 7)

(2) The probability of the impossible event = ·············

(∅ or 0 or 0.5 or 1)

(3) 572.4 cm. ············· 57.24 m.

(< or = or > or ≥)

(4) 3 ············· {13.303}

(⊂ or ⊄ or ∈ or ∉)

(5) If $\frac{2}{5} = \frac{a}{15}$, then a = ·············

(3 or 5 or 6 or 7)

(6) 5 ············· {3 , 5} ∩ {4 , 7}

(∈ or ∉ or ⊂ or ⊄)

(7) The number of altitudes of any triangle is ·············

(1 or 2 or 3 or 4)

(8) In the opposite figure :

The longest chord in the circle M

is ············ ···
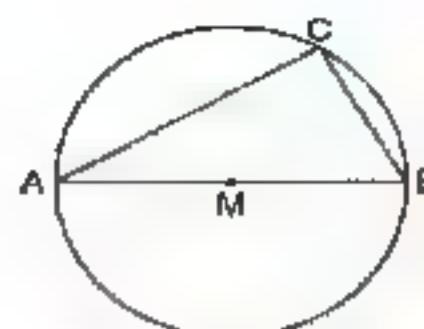
$(\overline{MA} \quad or \quad \overline{AB} \quad or \quad \overline{AC} \quad or \quad \overline{CB})$

(9) ten tenths = ············   (100   *or* 1 *or* 10   *or* 0.1)

(10) $327 + 24 = 3.27 +$ ········· ··   (24   *or* 2.4   *or* 0.24   *or* 240)

(11) $\{32 , 4\}$ ········· · $\{3 , 2 , 4\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(12) If $\{2 , a + 2\} \not\subset \{2 , 4 , 6 , 8\}$, then a = ·········

(2 *or* 4 *or* 6 *or* 8)

(13) $3.6 \times 100 =$ ··· · ···   (0.036   *or* 36   *or* 0.36   *or* 360)

(14) If $X \subset Y$, then $X \cap Y =$ ········ ···   (X   *or* Y   *or* $\overset{\circ}{X}$ *or* $\overset{\circ}{Y}$)

---

② Complete each of the following :

(15) 1.53 m. = ············· cm.

(16) $3.367 + 2.26 =$ ············ $\simeq$ ··········· (to the nearest tenth)

(17) If $\{3 , 4\} \subset \{2 , 3 , a - 1\}$, then a = ············ ····

(18) A circle of radius length 4 cm. , then its diameter length = ············· cm.

(19) $1 \frac{1}{2} + \frac{3}{4} =$ ··············

(20) 60 days $\simeq$ ············· weeks.

---

③ Answer the following :

(21) $8.43 \times 0.9 =$ ······ ········ $\simeq$ ··········· $\left(\text{to the nearest } \frac{1}{100}\right)$

(22) $39 \frac{2}{5} - 7.25 =$ ··········· ····· $\simeq$ ············· (to the nearest unit)

(23) $4 \frac{1}{8} \times 2 \frac{2}{3} =$ ······· ···· ··

(24) $\frac{3}{7} \simeq$ ············· (to the nearest thousandth)

(25) Rearrange the following numbers in a descending order :

$$\frac{1}{2} , 0.8 , \frac{1}{4} \text{ and } 0.3$$

··············· ················· ··············· ················· · · ········

Final Examinations

(26) If a car transfers 125 boxes of oranges , how many times can this car transfer 4375 boxes ?

....

(27) From the opposite figure , find :

[a] X ∪ Y   [b] X ∩ Y

[c] X – Y   [d] X`
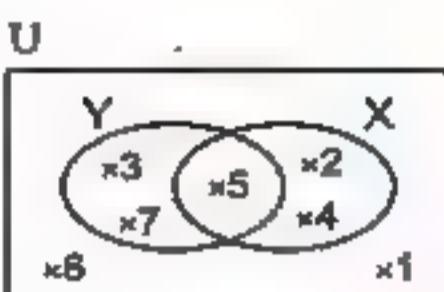
(28) Write all subsets of the set {2 , 3}

....

(29) Draw a circle of diameter length 6 cm.

, then draw the diameter $\overline{BC}$ and the chord $\overline{BA}$ of length 3 cm.

(30) A card was drawn from numbered cards from 1 to 10 randomly. Find the probability of the drawn card to be :

[a] Odd number.   [b] Prime number.

Model 20

Answer the following questions :

1 ***Choose the correct answer :***

(1) 276.532 ≃ ·············· (to the nearest hundredth)

(227   **or**   276.53   **or**   276.54   **or**   276.5)

(2) 27.54 × ·············· = 275.4

(10   **or**   100   **or**   1000   **or**   10000)

(3) 39 days ≃ ·············· weeks   (to the nearest week)

(5   **or**   6   **or**   7   **or**   8)

(4) 9 ·············· {3 , 6 , 9 , 12}   (∈   **or**   ∉   **or**   ⊂   **or**   ⊄)

(5) The number of subsets of {1 , 7} equals ············· .

(2   **or**   3   **or**   4   **or**   5)

(6) {3 , 4} ·············· {143}   (∈   **or**   ∉   **or**   ⊂   **or**   ⊄)

(7) If {10 , 7} = {10 , x + 4} , then x = ··············

(3   **or**   4   **or**   5   **or**   6)

(8) If the radius length of a circle is 2 cm. , then its diameter length

is .... cm.   (3   or   4   or   5   or   6)

(9) $\{5\}$ .... $\{2 , 3 , 4 , 5\}$ ($\in$ or $\notin$ or $\not\subset$ or $\subset$)

(10) 0.068×1000 .... 0.68×100 (<   or   >   or   =   or $\neq$)

(11) The right-angled triangle has only one altitude.   (✓   or   ✗)

(12) $32.5 \times 7 =$ ....   (2275   or   227.5   or   22.75   or   2.275)

(13) As throwing a fair die once and observing the appearing number

on the upper face , then the probability of appearing a number

divisble by 2 is ....   ($\frac{1}{2}$ or $\frac{5}{6}$ or $\frac{2}{3}$ or $\frac{1}{3}$)

(14) As throwing a metallic coin once , then the probability that a tail

appears is ....   ($\frac{1}{4}$ or $\frac{3}{4}$ or   1   or $\frac{1}{2}$)

---

2 **Complete each of the following :**

(15) $1\frac{1}{2} + 3\frac{3}{4} =$ ....

(16) $\{5 , 6\} \cap \{4 , 5\} =$ ....

(17) The longest chord in the circle is called ....

(18) $8.2487 \times 10 =$ .... $\simeq$ .... (to the nearest hundredth)

(19) The probability of the sure event = ...

(20) The triangle which the lengths of its sides are equal is called ....

---

3 **Answer the following :**

(21) $5.3 \times 34.7 =$ ....

(22) $84.61 + 23.473 =$ .... $\simeq$ .... $\left(\text{to the nearest } \frac{1}{100}\right)$

(23) $66.7 \div 10 =$ ....

(24) A truck can carry 162 boxes. Find the number of trips needed to

transport 19 440 boxes.

....

(25) By using the opposite Venn diagram , find :

[a] $X \cap Z$ **[b]** $X \cup Y$

[c] $X - Z$ **[d]** $\acute{X}$
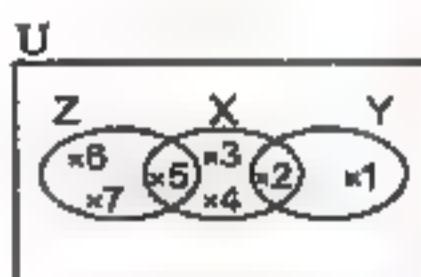
(26) Draw the equilateral triangle ABC

whose side length is 6 cm. , then draw

the three altitudes of this triangle.

Final Examinations

(27) A box contains 20 cards numbered from 1 to 20 , if a card is drawn randomly. Calculate the probability that the drawn card carries :

[a] An odd number.   [b] A number divisible by 7

[c] An even number.   [d] A prime number.

(28) Arrange in an ascending order : $\frac{1}{4}$, 0.7 , $\frac{1}{8}$ and 0.33

....

(29) Write the subsets of X = $\{a , b , c\}$

....

(30) Put the suitable sign "$\in , \notin , \subset$ or $\not\subset$" :

[a] $\{3\}$ .... $\{6 , 11 , 13 , 30\}$ [b] 2 .... $\{2 , 7\}$

[c] $\varnothing$ .... $\{16 , 6\}$ [d] 24 .... $\{2 , 4\}$

Model 21

Answer the following questions :

① Choose the correct answer :

(1) The number of all subsets of the set A = $\{1 , 2\}$ is ....

(3 *or* 4 *or* 5 *or* 6)

(2) If the following fractions $\frac{3}{\square}$, $\frac{4}{\square}$ and $\frac{5}{\square}$ are in their simplest form

, then $\square$ = ...   (12 *or* 13 *or* 14 *or* 15)

(3) $\{1.3\}$ .... $\{13\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(4) The altitudes of .... -angled triangle intersect in one point outside the triangle. (right *or* acute *or* obtuse *or* scalene)

(5) The diameter of a circle divides it into two congruent parts.

(✓ *or* ✗)

(6) $\frac{1}{3}$ + $\frac{2}{3}$ = ...   (1 *or* $\frac{3}{6}$ *or* $\frac{2}{3}$ *or* $\frac{2}{6}$)

(7) $\{1 , 2 , 3 , ...\}$ is .... set.

(a finite *or* an infinite *or* an empty)

(8) 10 halves $\square$ 15 fifths   (< *or* > *or* = *or* ≤)

(9) The length of the radius = ... the length of the diameter in the same circle.   (double *or* half *or* triple *or* quarter)

(10) $9.64 \div 4 =$ ··············   (241   *or*   2.41   *or*   1.96   *or*   38.56)

(11) $736.592 \simeq 736.59$ to the nearest ··············

(tens   *or*   tenth   *or*   hundredth   *or*   thousandth)

(12) $\frac{7}{9}$ ·············· $2\frac{1}{9}$ (<   *or*   =   *or*   >   *or* $\geq$)

(13) $\varnothing$ ·············· $\{0\}$ ($\subset$ *or* $\not\subset$ *or* $\in$ *or* $\notin$)

(14) The probability of an impossible event = ··············

($\varnothing$ *or*   1   *or*   0   *or* $\frac{1}{2}$)

---

2   *Complete the following :*

(15) $35.17 + 4.21 =$ ·············· $\simeq$ ·············· (to the nearest tenth)

(16) If $\{1 , 5\} \subset \{1 , 3 , x , 7\}$, then $x =$ ··············

(17) 5146 gm. = ·············· kg.

(18) The longest chord in the circle is called ··············

(19) $\{2 , 4 , 7\} \cup \{1 , 4 , 7\} =$ ··············

(20) It is ·············· that the sun rises from the west.

---

3   *Answer the following :*

(21) $2\frac{1}{2} \times 1\frac{1}{5} =$ ··············   (22) $5328 \div 222 =$ ··············

(23) $4.28 + 6.375 =$ ·············· $\simeq$ ·············· (to the nearest 0.01)

(24) $6.37 \times 1.4 =$ ··············

(25) Write what is represented by shaded part in each diagram :

[a] ··············   [b] ··············   [c] ··············   [d] ··············

(26) Draw a circle whose centre is M
and radius length is 2.5 cm. , then
draw its diameter $\overline{AB}$ and draw its
chord $\overline{AC}$ of length 3 cm. , then
draw $\overline{BC}$ and find its length.

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Final Examinations

(27) If U is the set of whole numbers which less than 10 , X = {2 , 3 , 5} and Y = {3 , 4 , 5 , 7} , then find :

[a] X ∩ Y   [b] X ∪ Y   [c] X – Y

[d] X̀   [e] (Y – X)̀

(28) If we want to distribute 11 700 pounds equally among 325 persons. Find the share of each one.

....

(29) Draw the equilateral triangle ABC with side length 5 cm.

(30) As throwing a fair die once , calculate the probability of :

[a] Appearing a number greater than 6

[b] Appearing an even number greater than 4

[c] Appearing an even prime number.

Model 22

Answer the following questions :

1 *Choose the correct answer :*

(1) If X ⊂ Y , then X ∩ Y = ············   (X or Y or ∅ or U)

(2) The greatest number in the given is ············

(0.555 or $\frac{3}{5}$ or 0.57 or $\frac{2}{3}$)

(3) In △ ABC , ············

is the corresponding.

base to the altitude $\overline{BD}$
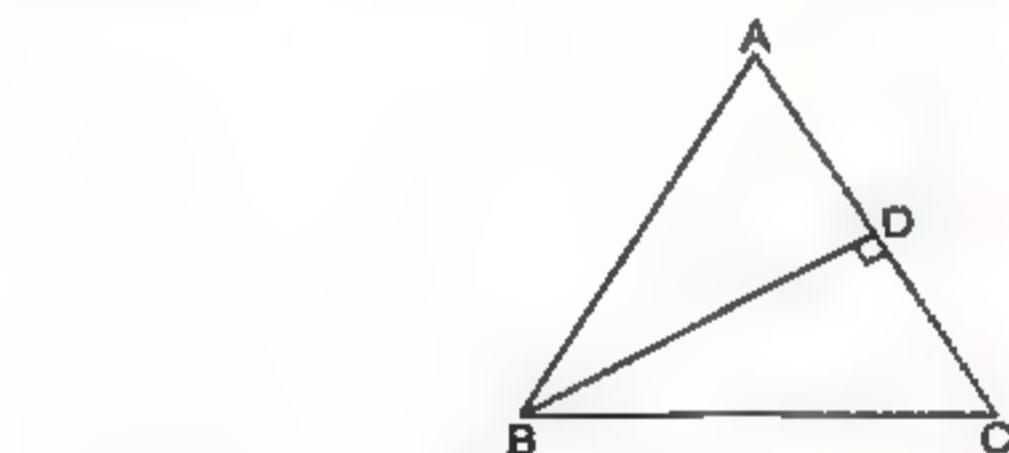
($\overline{AB}$ or $\overline{BC}$ or $\overline{AC}$ or $\overline{DC}$)

(4) {35} ············ {1 , 2 , 3 , 5}   (∈ or ∉ or ⊂ or ⊄)

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(5) As throwing a fair die once , then the probability of appearing the

number 4 equals ··········   ($\frac{1}{2}$ or $\frac{1}{6}$ or $\frac{5}{6}$ or $\frac{2}{3}$)

(6) 99.241 × 100 ·········· 992.41 × 10   (> or < or = or ≠)

(7) 43 days ≃ ·········· weeks   (4 or 6 or 5 or 7)

(8) 5 ·········· { 15 , 55 }   (∈ or ∉ or ⊂ or ⊄)

(9) 572.4 cm. ≃ ·········· (to the nearest metre)

       (5 or 6 or 500 or 600)

(10) If a ∈ X , then a ·········· X́   (∉ or ⊄ or ⊂ or ∈)

(11) 1.25 × 0.1 ·········· 1.25 + 0.1   (< or > or = or ≥)

(12) The number of altitudes of the right-angled triangle is ·········· ·

       (0 or 1 or 2 or 3)

(13) **In the opposite figure :**

·········· is a diameter

in the circle M
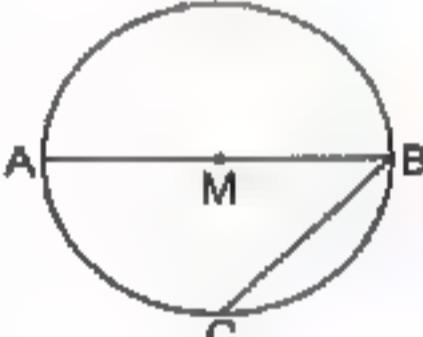
($\overline{AM}$ or $\overline{BC}$ or $\overline{BM}$ or $\overline{AB}$)

(14) $\frac{2}{3}$ ·········· $\frac{3}{4}$ (> or = or < or ≥)

---

2 **Complete the following :**

(15) ∅ ·········· { x , y }

(16) 806.5 ÷ 100 = ·········· .

(17) If X ⊂ Y , then X ∪ Y = ··········

(18) The longest chord in the circle is called ··········

(19) If 8 ∈ { 3 , 7 , x } , then x = ··········

(20) As tossing a metallic coin once , then the probability of appearing

a head = ··········

Final Examinations

3 *Answer the following :*

(21) $30.374 + 21.8 =$ ············· $\simeq$ ············· $\left(\text{to the nearest } \frac{1}{100}\right)$

(22) $12 \frac{1}{2} + 4 \frac{1}{4} =$ ·············   (23) $34.125 \times 100 =$ ·············

(24) $2.7 \times 0.5 =$ ·············   (25) $\{3 , 4 , 7\} \cup \{2 , 4 , 7\} =$ ·············

(26) Arrange the following numbers descendingly :

$3.4 , 0.0333 , 0.3033$ and 0.3303

(27) A truck can hold 125 boxes of oranges at a time. How many times are needed to deliver 4375 boxes by that truck ?

(28) If the universal set $U = \{x : x$ is an odd number less than $15\}$, $X = \{1 , 3 , 5\}$, $Y = \{1 , 5 , 9 , 13\}$
Draw Venn diagram which represents
the sets U , X , Y , then
find : $X \cap Y$, $X - Y$ and $\acute{Y}$

(29) A bag contains 5 white balls , 9 red balls and 6 black balls , all the balls are identical and equal in size , if a ball is drawn randomly.
What is the probability that the drawn ball is :
[a] White.   [b] White or red.

(30) Draw the triangle ABC in which
$AB = BC = 6$ cm. and $m (\angle B) = 60°$
, then draw $\overline{AD} \perp \overline{BC}$ which intersects
It at D , then find the length of $\overline{AD}$

Model 23

Answer the following questions :

1 *Choose the correct answer :*

(1) $355 + 18 = 3.55 +$ ·············   (1.8   or   0.18   or   18   or   1800)

(2) $\{7 , 2\}$ ·············· $\{1 , 2 , 4 , 17\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(3) $5.3746 \simeq$ ············· (to the nearest 0.01)

(5.38   or   5.375   or   5.37   or   5.374)

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(4) The probability of the impossible event = ...

$$(\varnothing \quad or \quad 0 \quad or \quad \frac{1}{2} \quad or \quad 1)$$

(5) {3} .... {1 , 3 , 5} $(\in \quad or \quad \notin \quad or \quad \subset \quad or \quad \not\subset)$

(6) The number of altitudes of any triangle is ....

$(zero \quad or \quad 1 \quad or \quad 2 \quad or \quad 3)$

(7) $32.25 \times 100 = $ .... (3225 \quad or \quad 32250 \quad or \quad 322.5 \quad or \quad 0.3225)

(8) The longest chord in the circle is called ....

(a diameter \quad or \quad a side \quad or \quad a radius \quad or \quad a centre)

(9) 43 days ≃ .... weeks (to the nearest week)

(4 \quad or \quad 5 \quad or \quad 6 \quad or \quad 7)

(10) If $6 \in \{2 , 2x , 7\}$, then $x = $ ....

(2 \quad or \quad 3 \quad or \quad 4 \quad or \quad 6)

(11) The triangle which the measures of its angles are 50° , 90° and 40°
is called .... -angled triangle.

(acute \quad or \quad right \quad or \quad obtuse \quad or \quad isosceles)

(12) If $X - Y = \varnothing$, then X .... Y $(\in \quad or \quad \notin \quad or \quad \subset \quad or \quad \not\subset)$

(13) As throwing a fair die once and observing the appearing number
on the upper face , then the probability of appearing an odd
number is .... $(\frac{1}{3} \quad or \quad \frac{1}{2} \quad or \quad \frac{5}{6} \quad or \quad \frac{1}{6})$

(14) In the opposite figure :

$AM = \frac{1}{2}$ ....
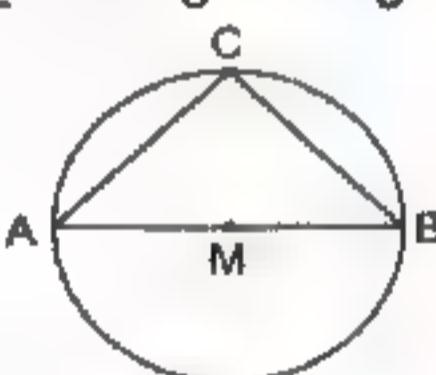
(AC \quad or \quad MB \quad or \quad BC \quad or \quad AB)

---

2 *Complete the following :*

(15) The set of digits of the number 30 772 is ....

(16) 7.657 m. = ... cm.

(17) $A \cup \bar{A} = $ ....

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Final Examinations

(18) $\frac{5}{7} \times$ ·············· = 1

(19) As tossing a metallic coin once , the probability of appearing a tail is ·············

(20) The set factors of the number 6 ∩ the set of prime numbers = ··············

3 *Answer the following :*

(21) 26.274 + 23.28 = ·············· ≈ ·············· (to the nearest 2 decimal places)

(22) 3456.821 − 188.725 = ·············· ≈ ·············· (to the nearest 0.1)

(23) 11655 + 555 = ··············

(24) $\frac{3}{4} \times \frac{10}{6}$ = ··············

(25) 1.73 × 2.8 = ··············

(26) $\{3 , 5 , 4\} - \{2 , 4 , 5 , 7\}$ = ··············

(27) From the opposite Venn diagram , find by listing method :

[a] X ∪ Y

[b] X ∩ Y

[c] X − Y

[d] X`
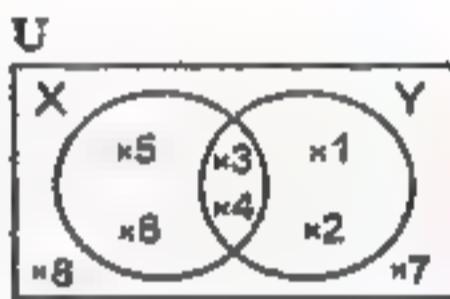
(28) If the price of a piece of sweet is 2.25 pounds.
What is the price of 25 pieces of the same kind ?

···

(29) A box contains 4 blue , 3 red balls and 7 yellow balls. A ball is drawn randomly from the box , find the probability of :

[a] Blue ball.

[b] Not yellow.

(30) Draw a circle M of radius length 5 cm.
, then draw the diameter $\overline{AB}$ and the chord $\overline{AC}$
of length 6 cm. , then draw $\overline{BC}$ and find its length.

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Model 24

Answer the following questions :

Choose the correct answer :

(1) The probability of that elephant flies = ············

(1 *or* 0 *or* $\frac{1}{2}$ *or* 2)

(2) 7 ··········· {17 , 77}

($\notin$ *or* $\in$ *or* $\subset$ *or* $\not\subset$)

(3) The sum of the measure of the angles of a triangle = ············°

(118 *or* 90 *or* 180 *or* 108)

(4) 67.5 − 24.38 = ············

(43.21 *or* 43.12 *or* 43.28 *or* 43.2)

(5) The diameter length of the circle of radius length 3 cm. = ············ cm.

(1 *or* 2 *or* 3 *or* 6)

(6) Perimeter of square = side length × ············

(1 *or* 2 *or* 3 *or* 4)

(7) The number of subsets of the set {4 , 5} equals ············

(2 *or* 3 *or* 4 *or* 5)

(8) The greatest number in the following is ············

(0.111 *or* 1.023 *or* 0.12 *or* 0.123)

(9) 63.7 + 100 = ············

(6.370 *or* 637 *or* 0.637 *or* 63.70)

(10) {45} ············ {4 , 5}

($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(11) The reciprocal of $2\frac{3}{7}$ is ············

($\frac{17}{7}$ *or* $\frac{7}{17}$ *or* $\frac{6}{7}$ *or* $\frac{5}{17}$)

(12) The chord which passes through the centre of the circle is called ············

(a diameter *or* a radius *or* a centre *or* a side)

(13) If {7 , x} = {y , 3} , then $x + y$ = ············

(7 *or* 3 *or* 4 *or* 10)

(14) As tossing a metallic coin once , then the probability of appearing a head or a tail = ············

($\frac{1}{2}$ *or* 0 *or* 1 *or* 0.4)

Final Examinations

2 Complete the following :

(15) $\{2 , 4 , 6\} \cap$ the set of the odd numbers = ⋯⋯⋯⋯

(16) $2 \frac{3}{4} + 1 \frac{3}{8} =$ ⋯⋯⋯⋯ .

(17) To draw a circle of diameter length 12 cm. , then the opening distance of the compasses should be ⋯⋯⋯⋯ cm.

(18) $17.025 + 6.35 \simeq$ ⋯⋯⋯⋯ = ⋯⋯⋯⋯ $\left(\text{to the nearest } \frac{1}{100}\right)$

(19) A subset of the sample space is ⋯⋯⋯⋯

(20) If $A \subset B$, then $A - B =$ ⋯⋯⋯⋯

---

3 Answer the following :

(21) $10019 + 233 =$ ⋯⋯⋯⋯

(22) $\{4 , 6 , 9\} - \{1 , 6 , 7\} =$ ⋯⋯⋯⋯

(23) $6 \frac{1}{4} \times 3 \frac{1}{5} =$ ⋯⋯⋯⋯

(24) $853.6 \times 100 =$ ⋯⋯⋯⋯

(25) If $\frac{1}{3} < \frac{x}{12} < \frac{2}{3}$ where x is an even number , find the value of x

(26) *In the opposite figure :*

Three circles of centres A , B and C

of radius length 4 cm. for each.

Find the perimeter of $\triangle ABC$
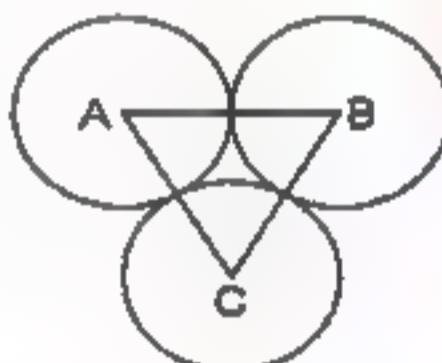
(27) Represent the two sets $A = \{1 , 2 , 3 , 6\}$ and $B = \{2 , 3\}$ by Venn diagram , then find : $A \cap B , A \cup B , A - B$

(28) Find the area of the rectangle whose length is 6.25 m. and its width is 2.5 m. to the nearest hundredth.

(29) As throwing a fair die once , calculate the probability of appearing :

[a] A number greater than 3

[b] A number greater than or equal to 3

[c] An odd prime number.

[d] A number divisible by 2

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(30) Draw △ ABC where AB = 6 cm. ,
BC = 8 cm. and CA = 10 cm.
Bisect $\overline{AC}$ at M , then draw a circle
of radius length 5 cm.
and M is its centre , then :

[a] Find two equal line segments
in length is the circle M

[b] What is the name of $\overline{AC}$?

Model 25

Answer the following questions :

Choose the correct answer :

(1) 8.46 dm. = ·············· cm. (846   or   0.846   or   84.6   or   8 460)

(2) The product of a fraction and its reciprocal is ··············

(1 or 2 or 0 or 3)

(3) {8 , 1} ··············· {1 , 8}   (∈ or ∉ or ⊂ or ⊄)

(4) The number of altitudes in any triangle = ············

(1   or 2 or 3 or 4)

(5) $12 \times 2\frac{3}{4}$ = ·············   (12   or 22   or 33   or 44)

(6) A ∩ Â = ··············   (U or A or ∅ or Â)

(7) {1 , 2} ··············· the set of prime numbers.

(⊂ or ⊄ or ∈ or ∉)

(8) Any line segment connects between any two points on the circle is
called ·············   (diameter or radius or chord or centre)

(9) If $\frac{3}{7} = \frac{a}{56}$, then a = ··············   (168   or 392 or 24 or 8)

(10) $\frac{7}{13}$ ··············· $\frac{5}{13}$ (< or = or > or ≤)

(11) If 5 ∈ {2 , x + 4 , 7} , then x = ·············· (1   or 5 or 9 or 13)

(12) In the opposite figure :

M and N are two circles

, then length of $\overline{MN}$ ≃ ·············· cm.

(5   or 6 or 7 or 10)

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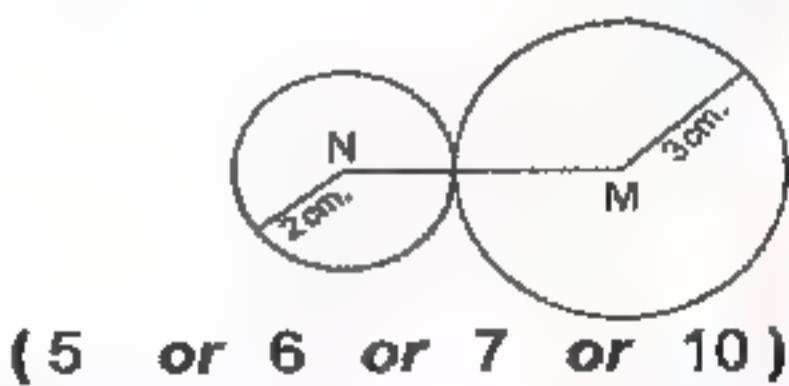
Final Examinations

(13) In the opposite figure :

The number of rectangles is ┄┄┄┄┄

(4 or 6 or 8 or 9)

(14) The probability of getting an even number when rolling a die

once = ┄┄┄┄┄   ($\frac{1}{6}$ or $\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{5}{6}$)

2 *Complete each of the following :*

(15) All radii are ┄┄┄┄┄ in the same circle.

(16) The number of elements of the null set = ┄┄┄┄┄

(17) The altitudes of the right-angled triangle intersect at one point located at ┄┄┄┄┄

(18) A letter is selected randomly from the word "Habiba" , then the probability of selecting the letter "A" is ┄┄┄┄┄

(19) If X and Y belong to the circle M where M ∈ $\overline{XY}$, then $\overline{XY}$

is called a ┄┄┄┄┄ in the circle.

(20) $\frac{4}{7} \simeq$ ┄┄┄┄┄ (to nearest thousandth)

3 *Answer the following :*

(21) 18.76 + 25.3 = ┄┄┄┄┄   **(22)** 542.42 ÷ 100 = ┄┄┄┄┄

(23) 0.543 × 2.3 = ┄┄┄┄┄   **(24)** $\frac{7}{24} + 3\frac{1}{2}$ = ┄┄┄┄┄

(25) The opposite figure is a Venn diagram.

List each of the following :

[a] A ∩ B   [b] A ∪ B
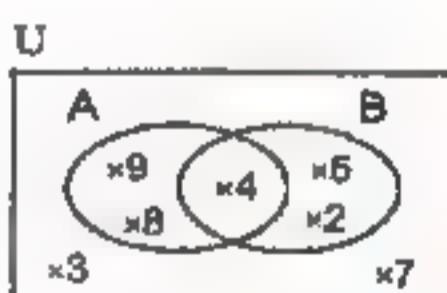
[c] A − B   [d] À

(26) Arrange the following numbers in an ascending order :

$$\frac{1}{2} \, , 0.8 \, , \frac{1}{4} \text{ and } 0.3$$

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(27) Draw the triangle ABC in which

AB = 8 cm. , BC = 6 cm. and AC = 10 cm.

What is the type of △ ABC

according to its angles ?

(28) A bag contains 5 white balls , 9 red balls and 6 black balls , all the

balls are identical and equal in size. If a ball is drawn randomly.

What is the probability that the drawn ball is :

[a] White.   [b] Red.

[c] Not white.   [d] White or red.

(29) A barrel has 113.75 litres. of oil and we want to distribute the oil

in bottles where every bottle holds 1.25 litres. Find the number of

bottles are needed for that.

....

(30) Draw a circle M of diameter length 6 cm.

, then draw the two radii $\overline{MA}$ and $\overline{MB}$

where m (∠ AMB) = 60° and draw $\overline{AB}$

, find :

[a] The length of $\overline{AB}$

[b] m (∠ A)

1 Cairo Governorate
East Nasr City Educational Zone
Al-Ola Language Madras School

Answer the following questions :

1 Choose the correct answer .

(1) $22.22 \div 2 =$ (11 11 or 10.01 or 22.22 or 1 111)

(2) $\{2 , 3 , 6 , 12\} \cap$ the set of factors of the number 6 =

($\{2 , 3 , 12 , 6\}$ or $\{3 , 6\}$ or $\{4 , 6\}$ or $\{2 , 3 , 6\}$)

(3) $1\frac{1}{2} + \frac{1}{4} = $ (2 or 6 or 12 or $\frac{3}{8}$)

(4) If the probability of pupil's success is $\frac{8}{10}$, then the probability of his failure is   ($\frac{1}{8}$ or $\frac{3}{10}$ or $\frac{1}{5}$ or 1)

(5) $8.25 \div 8 \approx$ (to the nearest tenth)

(101 or 1 or 1.01 or 10 1)

(6) The longest chord in a circle is called a

(chord or radius or tangent or diameter)

(7) 5 hours + 29 minutes + 60 seconds = hours

(5 or 5.3 or $5\frac{1}{2}$ or 6)

(8) If $\{7 , 10\} \subset \{10 , x + 3\}$, then $x -$ (3 or 4 or 5 or 10)

(9) The smallest fraction in the following is

($\frac{1}{3}$ or $\frac{5}{6}$ or $\frac{2}{9}$ or $\frac{2}{5}$)

(10) $\frac{1}{25} \times 50 \times 0.25 =$ (4 or $\frac{1}{4}$ or $\frac{1}{2}$ or 2)

(11) $\frac{2}{3} \times $ $= 1$ (1 or $\frac{1}{2}$ or 3 or $\frac{3}{2}$)

(12) In any triangle , the number of its altitudes =

(1 or 2 or 3 or 4)

(13) The shaded part represents

($X \cap Y$ or $X \cup Y$ or $X - Y$ or $Y - X$)

(14) 10×4.72 $\boxed{}$ 100×0.472 (< or > or =)

2 Complete :

(15) If $X = \{2 , 5 , 4\} \cap \{5 , 3 , 7\}$, then 1 X

(16) A circle is of diameter length 28 cm , then its radius length = cm.

(17) 3.26 m. = ... km.

(18) The probability of the sure event is ....

(19) If $X \subset Y$, then $X - Y =$ ....

(20) 3 .... the set of factors of the number 18

(21) The number of days in 254 hours equals approximately ....

(22) 8 43 × 0 9 ≃ .... ≃ .... $\left(\text{to the nearest } \frac{1}{100}\right)$

3 Answer the following :

(23) A bag contains 5 white balls , 9 red balls and 6 black balls. All the balls are identical and equal in size If a ball is drawn randomly What is the probability that the drawn ball is :

[a] White ?   [b] Not red ?

(24) Draw the triangle ABC in which
AB = 3 cm. , BC = 4 cm. and
AC = 5 cm. , then draw the circle M
whose diameter is $\overline{AC}$

(25) The length of a piece of cloth is 9.25 m , 12 towels are made of it and the length of towel is 0.75 m How many metres are remainder ?

(26) Use the opposite Venn diagram to write each of the following sets
[a] $X \cap Y =$
[b] $X \cup Y =$
[c] $Z - (X \cap Y) =$

(2) Cairo Governorate   Maadi Educational Directorate   Victory College Maadi
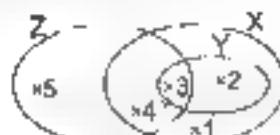
Answer the following questions

1 Choose the correct answer

(1) 71 5 + ... = 0 715   (10 or 100 or 1000 or 10000)

(2) If $9 \in \{3 , 5 , x\}$, then $x =$ (3   **or**   5   **or**   7   **or**   9)

(3) The number of altitudes of any triangle =

                             (1   **or**   2   **or**   3   **or**   4)

(4) 2600 gm =   kg   (to the nearest kg.)   (2   **or**   3   **or**   4   **or**   6)

(5) $2\frac{4}{5}$ ☐ 2.16   (>   **or**   <   **or**   =   **or**   ≤)

(6) If $X = \{1 , 2\}$ and $Y = \{5\}$, then $X \cup Y =$

                       ($\{1 , 2 , 5\}$ **or** $\{1 , 5\}$ **or** $\emptyset$ **or** $\{2\}$)

(7) 55 $\{5 , 505\}$ ($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

2 Choose the correct answer

(1) $5.037 \simeq$ (to the nearest $\frac{1}{100}$)(5   **or**   5.0   **or**   5.03   **or**   5.04)

(2) $\emptyset$ ⸱⸱⸱⸱ $\{2 , 4 , 6\}$ ($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(3) $1.8 \times 5 =$ (9   **or**   9.5   **or**   1.85   **or**   18.5)

(4) $98.7 \times 100 =$ (9.87   **or**   987   **or**   9870   **or**   0.987)

(5) If $X \subset Y$, then $X \cap Y =$ (X   **or**   Y   **or** $\emptyset$ **or**   X – Y)
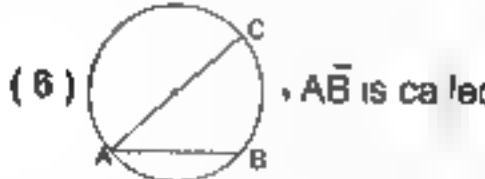
(6) , $A\bar{B}$ is called

                 (radius   **or**   diameter   **or**   chord   **or**   circle)

(7) $54.523 \simeq 54.5$ (to the nearest   )

         ($\frac{1}{1000}$ **or** $\frac{1}{10}$ **or** $\frac{1}{100}$ **or** $\frac{1}{10000}$)

3 Complete :

(1) When tossing a die once , the probability of appearing an odd number =

(2) $1\frac{2}{3} \times 1\frac{1}{5} =$

(3) Any chord passing through the centre of the circle is called

(4) If $\{2 , a\} = \{7 , b\}$, then $a =$ and $b =$

(5) A circle of diameter length 3 cm. , then its radius length =   cm

(6) $25.25 \div 0.25 =$

(7) If $\{3\} \subset \{x + 1 , 5\}$, then $x =$

(8) $25.71 + 3.5 =$

4 [a] Find the result of :

0 675 × 2.3 = ≃ (to the nearest thousandth)

[b] A box contains identical balls , 6 balls are white , 9 red and 4 yellow.
Find the probability that the chosen ball is

(1) Red = (2) Not yellow =

5 [a] From the opposite figure, find

(1) X ∪ Y = ...
(2) X ∩ Y =
(3) Y − X =
(4) X` =
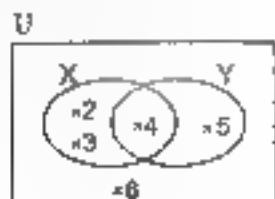
[b] Draw the triangle ABC in which

AB = BC = 6 cm. and AC = 4 cm.

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3 Cairo Governorate

Answer the following questions .

1 Choose the correct answer :

(1) 674.8 ÷ = 67.48 (100 or 10 or 1000 or 10000)

(2) If 7 ∈ {2 , 3 , x − 1} , then x = (7 or 6 or 8 or 3)

(3) 3.43 ≃ 3.4 is approximated to the nearest

(ten or unit or 0.01 , or $\frac{1}{10}$)

(4) The radius length of a circle equals the diameter length

(twice or half or double or $\frac{1}{3}$)

(5) 97 2 ÷ 9 = (1 8 or 1.08 or 10 8 or 108)

(6) The altitudes of the triangle intersect at point(s).

(1 or 2 or 3 or 4)

(7) 1.2 kg = gm (12 or 120 or 1200 or 0 012)

(8) If $\frac{2}{23} < \frac{x}{23} < \frac{4}{23}$, then x = (3 or 4 or 5 or 6)

(9) $\{5,7,9\} \cup \{3,4,5\} =$

$(\{7,9\}$ or $\{5\}$ or $\{3\}$ or $\{3,4,5,7,9\})$

(10) $4\frac{1}{2} \times \underline{\hspace{2cm}} = 1$ $(\frac{1}{2}$ or $\frac{9}{2}$ or 2 or $\frac{2}{9})$

(11) If $\{3,5\} = \{x,3\}$, then $x =$ $(3$ or 5 or 2 or $4)$

(12) $\frac{1}{2} + \frac{1}{12} =$ $(\frac{1}{24}$ or 24 or 12 or $6)$

(13) $\{9,11,13\} - \{3,11,14\} =$

$(\{5,2\}$ or $\{3\}$ or $\{11\}$ or $\{9,13\})$

(14) $\frac{21}{7}$ $\{1,3,5,7\}$ $(\in$ or $\notin$ or $\not\subset$ or $\subset)$

2 Complete each of the following :

(15) $\frac{2}{3} \approx \underline{\hspace{2cm}}$ (to the nearest tenth)

(16) $X \cap X^\cdot = \underline{\hspace{2cm}}$

(17) If $\frac{7}{14} = \frac{x}{2}$, then $x = \underline{\hspace{2cm}}$

(18) The diameter is a $\underline{\hspace{2cm}}$ passing through the $\underline{\hspace{2cm}}$

(19) $17 \times 0.04 = \underline{\hspace{2cm}}$

(20) When tossing a coin once, then the probability of appearing a head = $\underline{\hspace{2cm}}$

(21) The altitudes of the obtuse-angled triangle intersect at one point $\underline{\hspace{2cm}}$ the triangle.

(22) $\{1,2,3\} \cup \{3,8\} = \underline{\hspace{2cm}}$

3 Answer the following :

(23) In a school there are 400 pupils, 173 of them are boys, the rest are girls Find the probability of chosen pupil is girl

(24) Find a number when multiplied by 0.25, then the product is 3.25

(25) Look at Venn diagram, then find

[a] $X - Y =$

[b] $X \cap Y =$

[c] $\dot{Y} =$

[d] $(X \cup Y)^\cdot =$
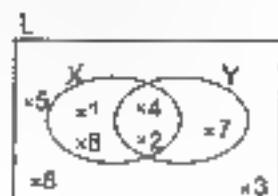
(26) Draw a circle M whose radius length
is 4 cm , where MA is a radius , then
draw the chord $\overline{AB}$, where AB = 5 cm.
Find the type of △ AMB according to
its side lengths

4 Cairo Governorate — Rod El-Farag Educational Zone — St. Mary's School

Answer the following questions

1 Choose the correct answer

(1) If $4 \in \{1 , 2 , 2x\}$, then $x =$ (2 or 3 or 4 or 5)

(2) $\{7 , 8\}$ $\{5 , 7 , 10\}$ ($\in$ or $\subset$ or $\notin$ or $\not\subset$)

(3) In any triangle, the number of its altitudes =

                           (1 or 2 or 3 or 4)

(4) Any chord passing through the centre of a circle is called

               (diameter or radius or chord or otherwise)

(5) $\{32\}$ $\{3 , 2\}$ ($\in$ or $\subset$ or $\notin$ or $\not\subset$)

(6) $2\frac{1}{3} \div \frac{5}{3} =$ ($\frac{7}{5}$ or $\frac{5}{7}$ or $\frac{3}{7}$ or $\frac{5}{2}$)

(7) $9\frac{3}{25} \approx$ (to the nearest tenth)   (0.9 or 9.2 or 9.11 or 9.1)

(8) $\{2 , 3 , 6 , 12\} \cap$ the set of factors of the number 6 =

           ($\{3 , 6\}$ or $\{4 , 6\}$ or $\{2 , 3 , 6\}$ or $\{2 , 3 , 6 , 12\}$)

(9) $4\frac{1}{8} \times 2\frac{2}{3} =$ (1 or 10 or 11 or 111)

(10) $\frac{5}{8} \boxed{} 0.5734$ (> or = or < or ≤)

(11) 0.472×100 4.72×10 (> or = or < or otherwise)

(12) $(2\frac{1}{4} + \frac{3}{4}) \div \frac{3}{7} =$ (2 or 5 or 7 or 20)

2 Complete the following

(13) If $X \subset Y$, then $X \cap Y =$

(14) $\{2 , 3 , 5\} \cap \{1 , 3 , 5\} =$

(15) $4.86 + 0.9 =$

(16) $\frac{3}{25} + 0.012 =$

(17) The probability of the sure event =

(18) The altitudes in obtuse-angled triangle intersect at the point that

(19) $(7.65 - 3.4) \times 100 =$

(20) If $\{6 , a , 2\} = \{b , 3 , 2\}$, then a –   , b =

(21) $2.345 \times 0.14 =$ (to the nearest hundredth)

(22) In the opposite figure :

M , N are two circles , then

MN =   cm.

3 Answer the following

(23) A box contains 18 cards numbered from 1 to 18 Randomly a card has been selected. Calcuate the probability of selecting

[a] A prime number   [b] A number divisible by 5

(24) If the price of one metre of cloth is L.E. 3.25 , what is the cost of 2 5 metres of cloth ?

(25) If U = $\{1 , 2 , 3 , 4 , 5 , 6 , 7 , 8\}$

, X = $\{1 , 3 , 4 , 7\}$, Y = $\{1 , 2 , 3 , 6\}$

Draw a Venn diagram that represents

the sets U , X and Y and then find $X \cap Y$

$X \cap Y = \{$ $\}$

(26) Draw the $\triangle ABC$ where AB = 4 cm

, BC = 3 cm and CA = 5 cm.

, then draw its altitudes.

What is the type of $\triangle ABC$ according to its sides

⑤ Cairo Governorate
Al-Khalifa and Al-Moketam Educational Zone
AL Hehda Experimental Lang. School

Answer the following questions :

1 Choose the correct answer :

(1) $3.75 \times 100 =$ \qquad (0.375 **or** 375 **or** 3705 **or** 0.0375)

(2) If $7 \in \{6 , x + 1\}$, then $x =$ (6 **or** 7 **or** 8 **or** 5)

(3) Number of altitudes of the right-angled triangle is

(0 **or** 1 **or** 2 **or** 3)

(4) $\{1 , 3\} \cap \{2 , 3\} =$ ($\emptyset$ **or** $\{3\}$ **or** $\{1\}$ **or** $\{1 , 2 , 3\}$)

(5) 52 days $=$ \qquad weeks. (6 **or** 8 **or** 7 **or** 5)

(6) If $X \subset Y$, then $X \cap Y =$ (X **or** Y **or** $\emptyset$ **or** $\bar{X}$)

(7) $625 + 25 = 6.25 +$ (2.5 **or** 0.25 **or** 25 **or** 250)

2 Choose the correct answer :

(8) $\frac{1}{3} + \frac{2}{7} =$ ($1\frac{1}{6}$ **or** $\frac{6}{7}$ **or** $\frac{2}{21}$ **or** $\frac{13}{21}$)

(9) $\{7\}$ \qquad $\{3 , 5 , 7\}$ ($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(10) 40 gm. $=$ \qquad kg. (40000 **or** 0.4 **or** 4000 **or** 0.04)

(11) If $\frac{a}{8} = \frac{15}{24}$, then a $=$ (9 **or** 5 **or** 3 **or** 10)

(12) Number of subsets of the set $A = \{3 , 5\}$ is

(4 **or** 3 **or** 2 **or** 1)

(13) The triangle whose measures of its angles are $(20° , 100° , 60°)$
is called \qquad triangle
(acute-angled **or** right angled **or** obtuse-angled **or** isosceles)

(14) If $\frac{5}{7} < \frac{x}{7} < 1$, then $x =$ (4 **or** 5 **or** 6 **or** 7)

3 Complete each of the following

(15) $12.34 + 15.172 =$ \qquad $=$ \qquad (to the nearest hundredth)

(16) $\{1 , 2 , 4\} - \{2 , 4 , 6\} =$

(17) The probability of the certain event is ⋯

(18) The radius length of a circle whose its diameter length is 5 cm. is ⋯⋯ cm.

(19) If $\{2 , x\} = \{5 , y\}$, then $x =$ ⋯⋯⋯ , $y -$

(20) The longest chord in the circle is called ⋯

(21) 4 7896 ≃ ⋯⋯⋯ (to the nearest thousandth)

(22) 8855 + 253 =

Answer the following .

(23) Arrange in an ascending order

$$0 6 \; , \; \frac{3}{4} \; , \; \frac{1}{2} \; \text{and} \; \frac{2}{3}$$

The order is : ⋯⋯ , ⋯⋯ , ⋯⋯ and ⋯⋯

(24) By using the opposite figure , find

[a] $A \cup B =$ ⋯⋯⋯   [b] $\bar{A} =$

(25) A die tossed once , find the probability of getting

[a] An even number.   [b] A number divisible by 3
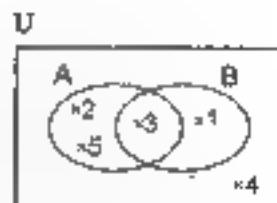
(26) Draw △ ABC where
     BC = 8 cm , AB = AC = 5 cm.

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⑥ Cairo Governorate — Western Cairo Educational Zone
Mathematics Inspection

Answer the following questions

Choose the correct answer

(1) 3.36 km ÷ ⋯⋯ m.   (3 306   or   33.6   or   336   or   3360)

(2) 52 241 × 100 =

(522 41   or   52241   or   5224 1   or   522410)

(3) {52}   {5 , 2}   ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(4) $\frac{5}{8}$ ____ 0.5734   (< or > or = or otherwise)

(5) The shaded part

($X \cap Y$ or $X \cup Y$ or $X - Y$ or $X \subset Y$)

(6) A circle , its radius length = 1 cm. , then its diameter length =   cm.

(1 or 2 or 3 or 4)

(7) $\frac{1}{3} \times \frac{3}{4}$ =   ($\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{1}{4}$ or $\frac{4}{12}$)

(8) If $3 \in \{x + 1 , 5\}$, then x =   (1 or 2 or 3 or 4)

(9) $\frac{4}{12} + \frac{8}{12}$ =   ($\frac{2}{3}$ or $\frac{4}{3}$ or $\frac{1}{12}$ or $\frac{4}{12}$)

(10) $\{1 , 3 , 4\} - \{3 , 4\}$ =   ({1} or {3} or {4} or {3 , 4})

(11) If $a \in X$, then a   X   ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(12) The right-angled triangle has   altitudes   (1 or 2 or 3 or 4)

(13) If $\frac{2}{3} = \frac{a}{12}$, then a =   (3 or 4 or 8 or 12)

(14) 46 762 $\approx$ (to the nearest hundredth)

(46 762 or 46.8 or 47 or 46.76)

2 **Complete the following :**

(1) The probability of the certain event =

(2) All the radii of the circle are

(3) 3978 + ⋯⋯ = 3 978

(4) 84.61 + 23.473 =

(5) $\varnothing$ {0}

(6) In the opposite figure .

AB is called   of the circle.

(7) The set of the digits of the number 7353 is

(8) 2.64 × 0.2 =
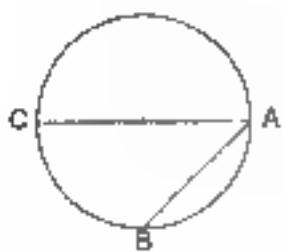
3 Answer the following :

(1) A box contains identical balls where 6 balls are white , 9 red balls and 5 black balls. If one ball is chosen randomly , what is the probability that the chosen ball is white ?

(2) Arrange in a descending order

$$4.5 \quad , 4\frac{1}{4} \quad , 5\frac{3}{4} \text{ and } 5\frac{1}{2}$$

The order is ········· , ········ , ········ and ········

(3) From the opposite Venn diagram , find

[a] $X \cup Y =$

[b] $\acute{Y} =$
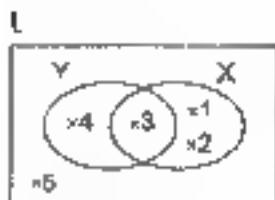
(4) Draw the triangle ABC in which

AB = 3 cm. , BC = 4 cm. and AC = 5 cm.

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7 Giza Governorate — Al-Agaza Educational Directorate , Baby Palace Private School

Answer the following questions .

1 Choose the correct answer .

(1) $9\frac{3}{25} =$ ········ (to the nearest tenth) (0.9 or 9.2 or 9.1 or 9)

(2) $1\frac{1}{8} + 1\frac{1}{8} =$ ········ (1 or 10 or 11 or 111)

(3) $\frac{2}{3} \times$ ········ $= 1$ (1 or 2 or 3 or $\frac{3}{2}$)

(4) $\frac{5}{8}$ ☐ 0.5734 (> or < or = or ≤)

(5) 43 days ≈ ········ weeks (to the nearest week) (4 or 5 or 6 or 7)

(6) 4.6 + 4.6 ☐ 0.1 (> or < or ≤ or =)

(7) The smallest number of the following numbers is

(0.111 or 0.12 or 0.123 or 1.0123)

(8) If $4 \in \{3 , 5 , x\}$, then $x =$ (3 or 4 or 5 or 6)

64

(9) The suitable symbol represents the shaded part in the shape is

$$(X \cap Y \quad \text{or} \quad X \cup Y \quad \text{or} \quad Y \subset X \quad \text{or} \quad X \subset Y)$$

(10) {50} \quad\quad {2 , 5} \quad\quad ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(11) In the opposite figure :
    $Y \cap X =$

$$(\{ 7 , 5 , 4 \} \quad \text{or} \quad \{ 1 , 2 \} \quad \text{or} \quad \{ 3 \} \quad \text{or} \quad \{ 1 , 2 , 3 \})$$

(12) If X is the set of odd numbers , then 36 \quad\quad X

$$(\in \text{ or } \notin \text{ or } \subset \text{ or } \not\subset)$$

(13) The number of altitudes of an acute-angled triangle is

$$(1 \quad \text{or} \quad 2 \quad \text{or} \quad 3 \quad \text{or} \quad 4)$$

(14) The triangle whose measures of its angles are (50° , 90° , 40°) is called \quad\quad triangle

(an acute-angled \quad or \quad an obtuse-angled \quad or \quad a right-angled \quad or \quad otherwise)

2 Complete :

(1) If $\frac{b}{8} = \frac{15}{24}$, then b =

(2) 3978 + $\cdots$ = 3.978

(3) The number 4 7398 $\simeq$ \quad\quad (to the nearest hundredth)

(4) If X , Y are two sets , X $\subset$ Y , then X $\cap$ Y =

(5) The shaded part in the opposite figure represents
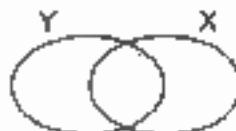
(6) Length of diameter of the circle whose radius length is 1 cm
    = $\cdots$ cm.

(7) The longest chord in the circle is the

(8) The probability of appearing a head when tossing a coin once =

3 Answer the following .

(1) Find : 1.775 × 0.15 =

(2) In the opposite figure , complete :

    [a] X $\cap$ Y = \quad\quad\quad [b] X́ –
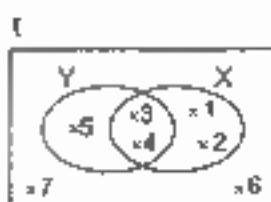
(3) n tossing a fair die once , then complete

[a] Probability of appearing an odd number =

[b] Probability of appearing a number greater than 6 =

8 **Giza Governorate** ET-Haram Zone
Al-Mustakbel Modern Language School

Answer the following questions .

1 Choose the correct answer .

(1) $32.5 \div 100 =$ (0 32 *or* 0 325 *or* 3250 *or* 325.2)

(2) $5.035 \approx$ (to the nearest hundredth)

         (5.03 *or* 500 *or* 5.04 *or* 5.3)

(3) If $X \subset Y$, then $X \cap Y =$ (X *or* Y *or* U *or* X`)

(4) $327 5 \times 100 =$ (3276 *or* 32750 *or* 3.275 *or* 327500)

(5) $\emptyset$ ..... $\{6 , 8\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(6) $\frac{1}{2}$ ☐ $\frac{1}{3}$ (< *or* = *or* > *or* $\leq$)

(7) The altitudes of the obtuse-angled triangle intersect at one point
     the triangle   (inside *or* on *or* outside)

(8) $0.4 \times 0.2 =$ (8 00 *or* 0.08 *or* 0 8 *or* 0.042)

(9) $\frac{2}{5} + \frac{1}{4} =$ ($\frac{5}{8}$ *or* $\frac{6}{5}$ *or* $\frac{8}{5}$ *or* $\frac{2}{3}$)

(10) 6 $\{7 , 6 , 8\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(11) The length of the longest chord is 6 cm , then the length of the radius
     of the circle =   cm   (6 *or* 12 *or* 4.5 *or* 3)

(12) The set $\{1 , 3 , 5 , \}$ is   set.
     (a finite *or* an infinite *or* an empty)

(13) $37440 \div 234 =$ (16 *or* 106 *or* 160 *or* 1600)

(14) $\frac{4}{5} \times \frac{1}{3} =$ ($\frac{1}{2}$ *or* $\frac{12}{5}$ *or* $\frac{4}{15}$ *or* $\frac{5}{8}$)

2 Complete the following :

(1) If $\{5 , x\} = \{7 , y\}$, then $x =$ ..... and $y =$

(2) The probability of the impossible event is

(3) The longest chord in the circle is called

(4) $76.25 \div 10 =$ $\simeq$ (to the nearest hundredth)

(5) The number of altitudes of any triangle is

(6) $\frac{4}{12} + \frac{5}{12} =$

(7) f $X = \{2 , 3 , 5\}$ and $Y = \{3\}$, then $X \cap Y =$

(8) $9282 \div 221 =$

3 **Answer the following :**

(1) Use the opposite Venn diagram to find

[a] $X \cap Y =$

[b] $\acute{Y} =$
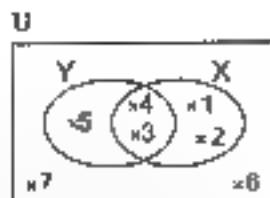
(2) A box contains 3 white balls , 7 red balls and 5 yellow balls , one ball is chosen randomly Find the probability of choosing

[a] Red ball = [b] Green ball =

(3) If the price of one metre of cloth is 6.45 pounds , what is the price of 2 metres ?

(4) Draw the circle M of radius length 4 cm.
, then draw the diameter $\overline{AB}$ and the chord AC = 5 cm.

Answer the following questions :

1 Choose the correct answer :

(1) $3.75 \times 100 =$ (0.375 **or** 37.5 **or** 375 **or** 0.0375)

(2) $\frac{1}{2}$ ☐ 0.3 (> **or** < **or** =)

(3) If $\frac{1}{2} = \frac{x}{8}$, then $x =$ (1 **or** 3 **or** 4 **or** 5)

(4) $1\frac{2}{3} \times 1\frac{1}{5} =$ ($2\frac{3}{8}$ **or** 2 **or** $1\frac{7}{18}$ **or** $\frac{13}{15}$)

(5) $31.294 = 31.3$ (to the nearest   )

(tenth **or** hundredth **or** thousandth **or** unit)

(6) The smallest prime number is (1 **or** 2 **or** 3 **or** 0)

(7) $\frac{2}{5} + \frac{7}{5} =$ ($\frac{14}{25}$ **or** $\frac{2}{7}$ **or** $\frac{7}{2}$ **or** 2)

(8) If $X \subset Y$, then $X \cap Y =$ (X **or** Y **or** $\varnothing$)

(9) $\varnothing$ $\{2, 6, 1, 5\}$ ($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(10) The set of odd numbers is   set

(a finite **or** an empty **or** an infinite **or** equal)

(11) If $\{5, 7\} \subset \{x+2, 5\}$, then $x =$ (2 **or** 5 **or** 7 **or** 3)

(12) 9 $\{19, 9\}$ ($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(13) If the length of the longest chord in a circle is 13 cm , then the length of any radius =   cm (26 **or** 6 **or** 6.5 **or** 11)

(14) The altitudes of the acute-angled triangle intersect at one point
the triangle.   (inside **or** outside **or** at the vertex of right angle)

2 Complete :

(1) $538.2 + 23.4 =$

(2) $2.3532 =$ $\left(\text{approximate to the nearest } \frac{1}{1000}\right)$

(3) $18.8 \div 1000 =$

(4) All the radii of the circle are   in length

(5) The number of altitudes of right-angled triangle is

(6) $\{2, 3, 5\} \cap \{2, 3, 4\} =$

(7) All the subsets of the set $\{2 , 3\}$ are   ,   ,
and

(8) When tossing a coin once , the probability of appearing a head =

3 Answer the following :

(1) If the price of one metre of cloth is L.E. 45 5 What is the price of
3.5 metres ?

(2) By using the opposite Venn diagram , find

[a] $A \cap B =$

[b] $A \cup B =$

[c] $A - B =$

[d] $\grave{A} =$
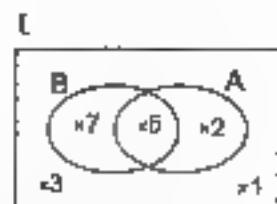
(3) A bag contains 5 red balls , 8 black balls and 6 white balls , all of
them are identical and equal in size A ball is drawn randomly
calculate the probability that

[a] The drawn ball is black =

[b] The drawn ball isn t green =

(4) Draw $\triangle ABC$ in which $AB = BC = CA = 5$ cm.
, then draw the altitude from A on $\overline{BC}$

(10) Alexandria Governorate Mid Educational Zone
Mathematics Inspection

Answer the following questions .

1 Choose the correct answer :

(1) $\{5 , 2\}$ .. .. .. $\{52\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(2) 28 61 × _____ = 28610   (10   or   100   or   1000   or   10000)

(3) $\frac{1}{2} + \frac{9}{4} =$ _____ (in the simplest form)   ($\frac{9}{8}$ or $\frac{9}{2}$ or $\frac{2}{9}$ or   1)

(4) $\emptyset$ _____ {0}   ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(5) In the opposite figure :
$\overline{AC}$ is called · _____
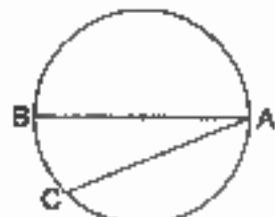
(radius   or   diameter   or   centre   or   chord)

(6) 4812 ÷ 1000 [_____] 0.4812 × 100   (<   or   >   or   =   or $\geq$)

(7) 42.395 + 53.31 $\approx$ _____ $\left(\text{to the nearest } \frac{1}{100}\right)$

(95 705   or   95.70   or   95.71   or   95 72)

(8) If $5 \in \{x + 3 , 7\}$, then $x =$ _____   (2   or   3   or   4   or   5)

(9) 25.25 ÷ 0.25 = _____   (10 1   or   11   or   1 01   or   101)

(10) In the opposite figure
ABC is right-angled triangle at B
The point of intersection of its altitudes is _____
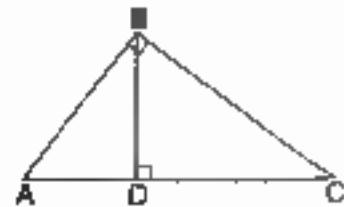
(A   or   B   or   C   or   D)

(11) 23 _____ the set of prime numbers.   ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(12) $\frac{5}{9} \times \frac{9}{25} =$ _____   ($\frac{5}{3}$ or $\frac{3}{5}$ or $\frac{1}{5}$ or $\frac{45}{25}$)

(13) If $X \subset Y$, then $X \cap Y =$ _____   (X   or   Y   or $\emptyset$ or   Y)

(14) 5675 grams $\approx$ _____ kilograms.   (5   or   6   or   56   or   57)

---

2 Complete :

(1) If $\frac{x}{8} = \frac{15}{24}$, then $x =$

(2) 2.7 × 0.4 =

(3) The probability of the sure (certain) event =

(4) The shaded part in the opposite figure represents

(5) The altitudes of the obtuse-angled triangle intersect in
a point lies ··········· the triangle

(6) 62 345 + 15 632 =   ≃   (to the nearest tenth)

(7) {3 , 7 , 2 , 5} − {4 , 2 , 5 , 6} =

(8) In the opposite figure ,

M and N are two circles

, then the length of MN =   cm.

---

3 Answer the following :

(1) An owner of packing food factory wanted to divide 5904 kg of sugar equally in 492 packs What is the weight of each pack ?

(2) From the opposite Venn diagram , find the following

[a] X ∪ Y =

[b] $\overset{\smile}{X}$ = ...
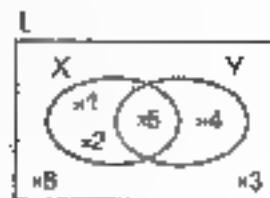
(3) As throwing a fair die once , find the probability of appearing

[a] An even prime number =

[b] A number divisble by 5 =

(4) Draw the triangle ABC

, where BC = 6 cm.

, AB = AC = 5 cm.

Draw $\overline{AD} \perp BC$

Find the length of $\overline{AD}$

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11 **Alexandria Governorate**   East Educational Zone
    Supervision of Math

Answer the following questions :

1 Choose the correct answer from those between brackets :

(1) 736.592 ≃ 736 59 (to the nearest   )

(Unit or tenth or hundredth or thousandth)

(2) 3.002 kilograms = ⋯ grams.

(30.02   or   300.2   or   3002   or   0.3002)

(3) If $\frac{2}{5} = \frac{a}{15}$, then a = ⋯

(5   or   6   or   8   or   10)

(4) A circle , its radius length = 1 cm. , then its diameter length = ⋯ cm.

(1   or   2   or   3   or   4)

(5) $\frac{3}{8}$ ☐ 0.5

(<   or   >   or   =   or   ≥)

(6) {2} ∪ {4} =

(24   or   ∅   or   {2 , 4}   or   6)

(7) 1.7 ÷ 10 =

(17   or   0.17   or   170   or   0.017)

(8) The number of altitudes in any triangle =

(1   or   2   or   3   or   4)

(9) 37.4289 − 14.081 = ⋯ (to the nearest thousandth)

(23.350   or   23.348   or   23.248   or   23.347)

(10) {52}   ⋯   {5 , 2}

(∈   or   ∉   or   ⊂   or   ⊄)

(11) 5.45 + 0.5 =

(1.9   or   1.09   or   10.9   or   109)

(12) 98.7 × 100 =

(987   or   9870   or   0.987   or   0.0987)

(13) If 4 ∈ {2 , x , 5} , then x =

(2   or   4   or   5   or   6)

(14) $\frac{2}{7} + \frac{5}{7}$ =

($\frac{7}{7}$ or $\frac{10}{7}$ or $\frac{2}{6}$ or $\frac{5}{2}$)

2 Complete each of the following

(1) 354 metres = ⋯ cm

(2) ⋯ + 9 = 4.5

(3) {5 , 6} ∩ {4 , 5} =

(4) Tossing a regular coin once , the probability of landing a head =

(5) The longest chord in a circle is called ⋯

(6) 3.6 × 1.3 = 1.3 × ⋯

(7) 3.26 × 17 = 3.26 × (7 + ⋯)

(8) A rectangle , its length is 4.1 cm and its width is 0.5 cm
, then its area is ⋯ cm²

3 Answer the following :

(1) Ahmed bought 12 cans of juice. The price of each can was L.E. 1.75
What is the total cost of juice ?
The total cost of juice =

(2) Arrange the following numbers in an ascending order

$$\frac{3}{2} \ , \ \frac{3}{5} \ , \ \frac{3}{8} \text{ and } \frac{3}{4}$$

The order is ⋯⋯⋯ , ⋯⋯⋯ , ⋯⋯⋯ and

(3) Draw a triangle ABC in which

AB = 4 cm. , BC = 5 cm. , AC = 6 cm

(4) If the probability of a pupil succeed in an exam is $\frac{8}{10}$

, find the probability of his fail

The probability of his fail =

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12 **El-Kalyoubia Governorate** · Directorate of Education Zone - Maths Supervision

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Answer the following questions :

1 Choose the correct answer :

(1) 3 75 × 1000 = (0.375 **or** 0.0375 **or** 3750 **or** 37 5)

(2) If $\frac{X}{8} = \frac{15}{24}$, then x = (2 **or** 3 **or** 4 **or** 5)

(3) The number of altitudes in the right-angled triangle =

(0 **or** 1 **or** 3 **or** 2)

(4) $2\frac{1}{8} + \frac{1}{8}$ = (17 **or** 16 **or** 8 **or** 18)

(5) If $5 \in \{7 , 9 , x , 4\}$, then x = (4 **or** 5 **or** 6 **or** 8)

(6) 4 2 dm. =

(0.42 cm. **or** 420 cm. **or** 42 cm **or** 4200 cm.)

(7) 43 days = ⋯⋯ weeks. (4 **or** 5 **or** 6 **or** 7)

(8) The shaded part in Venn diagram represents

($A \cap B$ **or** $A - B$ **or** $A^{`}$ **or** $A \cup B$)

(9) 3 36 km ⁓ ⋯⋯ m. (3360 **or** 336 **or** 3630 **or** 33600)

(10) If M is a circle whose diameter length is 8 cm where A is a point and MA = 8 cm , then the point A is located ⋯⋯ the circle.

(inside **or** outside **or** on **or** on the centre)

(11) $\frac{3}{5}$ ☐ 0.06   (< *or* > *or* = *or* ≤)

(12) $9\frac{3}{25}$ =   (to the nearest tenth) (9 *or* 9.2 *or* 9.13 *or* 9.1)

(13) {5 , 4} − {7 , 9 , 8 , 4} =

              ({5} *or* {7 , 9 , 4} *or* {7 , 8 , 4} *or* {9 , 5 , 8 , 4})

(14) For any set A and its complement A` , then A ∪ A` =

              (A *or* A` *or* U *or* A ∩ A`)

---

2 Complete the following .

(1) $4\frac{1}{8} \times 2\frac{2}{3}$ =

(2) In the opposite figure :

The corresponding height

to the base $\overline{BC}$ is

(3) $\frac{3}{25}$ + ······· = $\frac{3}{25}$

(4) The probability of the certain event =

(5) If Y = {2 , 9 , 6} ∩ {1 , 2 , 4} , then 6 ···· Y

(6) In the opposite figure :

$\overline{AB}$ is called ·

(7) If X ⊂ Y , then X ∪ Y =

(8) 3978 + ···· = 3.978

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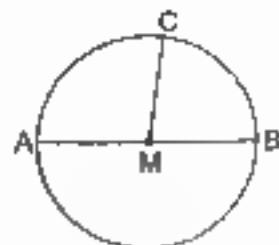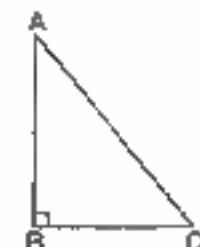
3 Answer the following :

(1) Look at the opposite Venn diagram , then find

[a] X ∩ Y =

[b] (X ∪ Y)` =

(2) Find with steps ·

[a] 21.6 + 1.2 = ···· · + ····· =

[b] $5\frac{1}{2} + 3\frac{2}{3}$ = ········ + ···· =

(3) A bag contains 5 white marbles , 7 black marbles and 3 red marbles , randomly one marble is selected, find

[a] The probability of selecting a black marble =

[b] The probability of selecting a white or red marble =
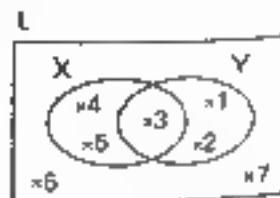
(4) Draw the triangle ABC where AB = 4 cm.
, BC = 6 cm and CA = 8 cm.
Then draw a circle its centre is B and its
radius length is 4 cm

13 El-Sharkia Governorate · Menia El-Qamh Educational Zone · Mathematics Inspection

Answer the following questions :

1 Choose the correct answer :

(1) 4 ___ {5 , 4 , 32} ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(2) 402.5 × 100 = ___ (40.25 **or** 4 025 **or** 40250 **or** 4025)

(3) $\frac{1}{8}$ ≈ ___ (to the nearest hundredth)

(0.125 **or** 0.12 **or** 0.13 **or** 0.1)

(4) 5.63 km = ___ m. (563 **or** 5630 **or** 563 **or** 56.3)

(5) Ø ___ {0} ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(6) Every triangle has ___ altitudes. (1 **or** 2 **or** 3 **or** 4)

(7) If X $\subset$ Y , then X $\cap$ Y = ___ (U or X or Y or Ø)

(8) The chord which passes through the centre of a circle is called ___

(diameter **or** radius **or** centre **or** side)

(9) When tossing a coin once the probability of appearing a tail = ___

(1 **or** $\frac{1}{2}$ **or** $\frac{1}{3}$ **or** $\frac{1}{6}$)

(10) 255 + 25 = 2.55 + ___ (2.5 **or** 0.25 **or** 25 **or** 2500)

(11) 40 days = ___ weeks. (4 **or** 6 **or** 5 **or** 7)

(12) $4\frac{1}{8} \times 2\frac{2}{3}$ = ___ (1 **or** 10 **or** 11 **or** 111)

(13) If {5 , 7} = {7 , x + 3} , then x = ___ (3 **or** 5 **or** 2 **or** 1)

(14) $\frac{1}{2}$ ☐ $\frac{1}{3}$ (< or > or =)

2 Complete :

(15) $\frac{2}{3} \times$ ___ = 1

(16) If $\frac{x}{8} = \frac{15}{24}$, then x = ___

(17) The probability of the sure event = ___

(18) A circle which its diameter length is 10 cm. , the length of its radius is .... cm.

(19) $806.7 \div 100 =$ ....

(20) If $5 \in \{3, 4, x\}$, then $x =$ ....

(21) $\{4, 7\} \cap \{2, 7\} =$ ....

(22) The longest chord in a circle is called ....

3 Answer the following .

(23) If the price of piece of sweet is 2.25 pounds, what is the price of 25 pieces of the same kind ?

(24) Using the opposite Venn diagram , find

[a] $X \cap Y =$ ....

[b] $X \cup Y =$ ....

[c] $X - Y =$ ....

[d] $Y' =$ ....
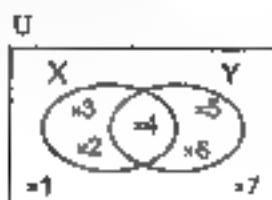
(25) A box contains 5 blue balls , 2 red balls , 4 white balls.
Find the probability of getting

[a] A white ball =

[b] A red ball =

(26) Draw the triangle ABC where

$AB = 3$ cm. , $BC = 4$ cm and $AC = 5$ cm.

(14) El-Gharbia Governorate El-Gharbia Educational Directorate — Math's Supervision

Answer the following questions .

1 Choose the correct answer :

(1) $2586.3 \div 100 =$

(25 863 or 258 63 or 2586.3 or 0.25863)

(2) $2.25 + 1.5 =$ (105 or 1 5 or 15 or 0 15)

(3) $X \cap \varnothing =$ (zero or X or $\varnothing$ or $\{0\}$)

(4) The altitudes of the triangle intersect at

        (one point or two points or three points or four points)

(5) $6.85 \times 1000 =$ (68.50 or 685 or 6850 or 685000)

(6) The probability of the impossible event =

                        (0 or 1 or 0.5 or $\varnothing$)

(7) If $\{4 , x + 2\} = \{7 , 4\}$, then $x =$ (4 or 5 or 7 or 9)

(8) The longest chord in the circle is called

                (radius or centre or side or diameter)

(9) $255 \div 25 = 2.55 \div$ (25 or 0 25 or 2 5 or 2500)

(10) 5.6 tons =   kg.   (5600 or 650 or 2 5 or 2500)

(11) 8 $\{7 , 5 , 8\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(12) $\varnothing$ $\{0 , 1 , 3\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(13) 12   the set of days of the week.   ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(14) 10 halves ☐ 20 fifths   ($\leq$ or $>$ or $<$ or $=$)

2 Complete the following :

(1) The diameter of a circle is a chord that crosses the

(2) $\{1 , 2\} \cup \{2 , 3\} =$

(3) $\{5 , 7\} - \{1 , 2\} =$

(4) 4 tens + 8 tenths =

(5) If $X \cap Y = \varnothing$, then X and Y are

(6) The probability of the sure event =

(7) $5.766 =$ (to the nearest $\frac{1}{100}$)

(8) $66.7 \div 1000 =$

3 Answer the following :

(1) $7.4 \times 2.2 =$

(2) $12474 \div 231 =$ (show the steps)

(3) Using the opposite Venn diagram , find

[a] A ∪ B = · · · ·   [b] A ∩ B =

[c] B – A = ··· · ··   [d] $\bar{B}$ =
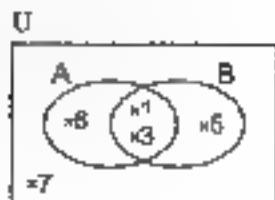
(4) Draw the triangle ABC in which

AB = BC = CA = 6 cm. , then

draw $\overline{AD} \perp \overline{BC}$, then

· find the length $\overline{BD}$ and m (∠ B)

(5) A bag contains 5 white balls , 9 red balls and 6 black balls , all the balls are identical and equal in size , if a ball is drawn randomly. What is the probability that the drawn ball is

[a] White ?   [b] Not white ?

[c] White or red ?

15 El-Dakahlia Governorate : Mathematics Supervision ☞ ~ Math Department ~

Answer the following questions .

1 Choose the correct answer ·

(1) 0.23 × 1 9 ☐ 0.019 × 23   (< or > or = or ≠)

(2) If X ⊂ Y , then X ∪ Y =   (X or Y or U or ∅)

(3) 32.683 ≃ ··· ··· (to the nearest 0 01)

(23 68 or 32.69 or 32.7 or 32.68)

(4) If {a , 3 , 5} = {b , 5 , 2} , then a + b =

(2 or 3 or 5 or 8)

(5) · · is used for drawing a circle

(Set square or Ruler or Compasses or Protractor)

(6) is a chord passing through the centre of circle.

(Radius or Chord or D ameter or Centre)

(7) f A and B are disjoint sets , then A – B =

(∅ or A or B or U)

(8) 39 days ≃ weeks   (5 or 6 or 7 or 8)

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(9) $\{1, 2, 3\}$ $\quad\quad$ $\{1, 2\}$ $\quad\quad\quad$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(10) The number of altitudes in the acute-angled triangle is

$\quad\quad\quad\quad\quad\quad\quad\quad\quad\quad\quad\quad\quad$ (0 or 1 or 2 or 3)

(11) 1 92 + $\quad\quad\quad$ = 0.0192 $\quad\quad$ (10 or 100 or 1000 or 10000)

(12) $\frac{2}{3} \times \quad\quad = 1$ $\quad\quad\quad\quad\quad$ { $\frac{2}{3}$ or 1 or $\frac{3}{2}$ or 23)

(13) 355 + 18 = 3.55 + $\quad\quad\quad$ (1 8 or 0 18 or 18 or 1800)

(14) $\bar{A}$ = $\quad\quad\quad$ (U − A or A or B or $\varnothing$)

2 Complete :

(1) The shaded part represents

(2) 245 cm. = $\quad\quad$ m

(3) If M is the centre of a circle

$\quad\quad$, AB is a chord such that $M \in \overline{AB}$, then $\overline{AB}$ is called

(4) 5904 + 492 = $\quad\quad$ (show steps in the rectangle).

(5) The probability of the certain event =

(6) $2\frac{2}{3} + \frac{4}{3}$ =

(7) $\{2, 4, 5\} \cap \{0, 2, 4\}$ =

(8) Radius length of a circle = $\quad\quad$ × diameter length
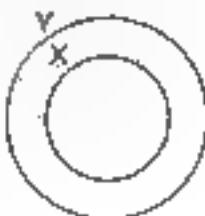
3 Answer the following :

(1) If the length of a rectangle is 2 65 cm and its width 1.5 cm

$\quad\quad$ Calculate its area to the nearest tenth

(2) From the opposite figure , complete

$\quad\quad$ [a] $X \cup Y$ =

$\quad\quad$ [b] $X \cap Y$ =

$\quad\quad$ [c] $X - Y$ =

$\quad\quad$ [d] $(X \cup Y)'$ =
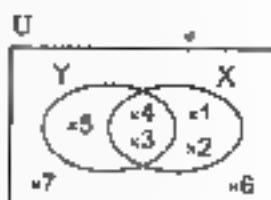
(3) A card has been drawn randomly out of 10 cards numbered from 1 to 10

$\quad\quad$, find the probability of getting

$\quad\quad$ [a] An odd number =

$\quad\quad$ [b] A prime number =

[c] An even number between 4 and 6 =

[d] A factor of the number 9 =

(26) Draw a circle M of radius length 2 5 cm.

and draw MA as a radius , then complete

the equilateral triangle MAB , then

find the perimeter of the triangle.

The perimeter =

16 Ismailia Governorate
Directorate of Education
24th October G.I.S.

Answer the following questions :

1 Choose the correct answer .

(1) $736.592 \simeq 736.59$ (to the nearest   )

(unit **or** tenth **or** hundredth **or** thousandth)

(2) The number of altitudes of any triangle is   (1 **or** 2 **or** 3 **or** 4)

(3) $X \cap \overline{X} =$ ············   (X **or** $\overline{X}$ **or** U **or** $\varnothing$)

(4) $37.4289 \quad 14.081 \simeq$ $\left(\text{to the nearest } \frac{1}{1000}\right)$

(23 349   **or**   23.350   **or**   23 348   **or**   23 248)

(5) $5 748 \times 100 =$ (57.48 **or** 0.5748 **or** 574 8 **or** 5748)

(6) 4   ·   {2 , 5}   ($\in$ **or** $\notin$ **or** $\subset$ **or** $\not\subset$)

(7) $\frac{4}{7} \boxed{} \frac{5}{9}$ (< **or** = **or** >)

(8) 3.36 km =   m.   (3.36 **or** 33.6 **or** 336 **or** 3360)

(9) $0.06 \times 0.3 =$ (18 **or** 0.018 **or** 0 18 **or** 0.09)

(10) The chord which passes through the centre of a circle is called

(diameter **or** radius **or** centre **or** side)

(11) If {4 , 8} = {1 + y , 4} , then y ~   (3 **or** 4 **or** 6 **or** 7)

(12) $2.125 \div 0.25 =$ ······   ÷ 25

(212 5 **or** 21.25 **or** 2125 **or** 21250)

(13) The set of odd numbers is .... set.

(a finite *or* an empty *or* an infinite)

(14) If $X \subset Y$, then $X - Y =$ .... (X *or* $\varnothing$ *or* Y)

2 Complete .

(15) The probability of the impossible event = ...

(16) .... $\times 2\frac{1}{2} = 1$

(17) $\varnothing$ .... $\{8 , 10\}$

(18) $3\frac{1}{4} \div \frac{1}{4} =$ ....

(19) 5 .... $\{7 , 5 , 3\}$

(20) To draw a circle with diameter length 8 cm , we open the compasses .... cm.

(21) $5\frac{2}{3} \times \frac{3}{17} =$ ....

(22) If ABC is an equilateral triangle of side length 4 cm. , then its perimeter = ... cm.

3 Answer the following :

(23) Arrange in an ascending order

$$3\frac{1}{4} \, , \, 3.3 \, , \, 3.125 \text{ and } 3\frac{1}{2}$$

(24) From the opposite Venn diagram , find

[a] $A \cup B =$ ....   [b] $A \cap B =$

[c] $A - B =$ [d] $\bar{B} =$

(25) Draw ABC isoscles triangle in which

AB = AC = 5 cm. , BC = 6 cm.

and draw AD $\perp$ BC , then find by measuring the length of AD
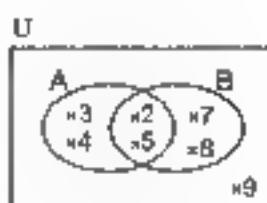
(26) A box contains 5 white balls , 4 blue balls and 2 red balls , find the probability of getting :

[a] A blue ball = ...   [b] A red ball –

(17) Suez Governorate — Maths Inspectorate

Answer the following questions.

1 Choose the correct answer :

(1) 2.45 km =   m   (24.5 *or* 245 *or* 0.245 *or* 2450)

(2) The longest chord in a circle is called a

           (chord *or* diameter *or* radius *or* otherwise)

(3) $\frac{1}{4}$ =   (0.2 *or* 0.5 *or* 0.25 *or* 2.5)

(4) $\frac{1}{3}$ ☐ $\frac{1}{2}$ (> *or* < *or* = *or* ≥)

(5) 36 days ≈   weeks (to the nearest week) (4 *or* 5 *or* 6 *or* 7)

(6) 57.3 × 100 =   (0.573 *or* 0.0573 *or* 5730 *or* 5.73)

(7) $2\frac{2}{3} \times 4\frac{1}{8}$ =   (11 *or* 10 *or* 1.1 *or* 111)

(8) 2   the set of digits of 1325   (∈ *or* ∉ *or* ⊂ *or* ⊄)

(9) If $8 \in \{3 , 5 , 4x\}$, then x =   (2 *or* 3 *or* 4 *or* 5)

(10) If $a \in X$, then a X (∈ *or* ∉ *or* ⊂ *or* ⊄)

(11) The smallest number from the following is

          (0.123 *or* 0.111 *or* 0.12 *or* 1.023)

(12) If $\{4 , 5 , 6\} = \{6 , 4 , x + 1\}$, then x =

          (4 *or* 5 *or* 6 *or* 3)

(13) When tossing a coin once , then the probability of appearing a head
=   (0 *or* 1 *or* 2 *or* $\frac{1}{2}$)

(14) 3.36 + 0.6 =   (5.6 *or* 56 *or* 0.56 *or* 6.5)

2 Complete

(1) If $\frac{3}{8} = \frac{a}{24}$, then a =

(2) $\frac{3}{7} \times \cdots = 1$

(3) If $X \subset Y$, then $X \cup Y$ =

(4) The point of intersection of the three altitudes of obtuse-angled triangle lies   the triangle.

(5) The probability of the sure event is

(6) A circle , its diameter length = 6 cm , then its radius length =   cm

(7) 7.52 + (14.73 − 11.53) = $\left(\text{to the nearest } \frac{1}{10}\right)$

(8) When tossing a fair die once , then the probability of appearing the number 7 is

3 Answer the following .

(1) Arrange in a descending order
$$\frac{1}{4} , 0.8 , 0.4 \text{ and } \frac{1}{2}$$

(2) Draw the triangle ABC in which
AB = AC = 5 cm. , BC = 8 cm.
Draw the altitude AD , find its length

(3) From the opposite Venn diagram , find

[a] A ∪ B =   [b] A ∩ B =

[c] A − B =   [d] B` =
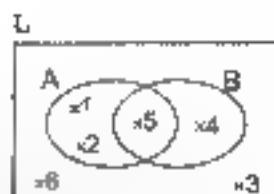
(4) A box contains identical balls where 5 balls are white , 9 red balls and 6 black balls , if one ball is chosen randomly , what is the probability that the chosen ball is white ?

(18) Damietta Governorate Damietta Educational Directorate Maths Inspection

Answer the following questions :

1 Choose the correct answer :

(1) $7\frac{1}{8}$ ≈   (to the nearest tenth)   (0.7 or 7.2 or 7.1 or 7)

(2) If {6 , 10} ⊂ {10 , x − 4} , then x =

(2 or 4 or 6 or 10)

(3) The shaded part is

(X ∩ Y or X − Y or Y − X or Y ∪ X)

(4) $0.312 \times 100 \boxed{} 312 \div 100$ (> or < or = or ≤)

(5) A square of side length = 3.5 cm , then its area =   cm^2

(14   or   122.5   or   12.25   or   7)

(6) A circle M , the length of its diameter = 10 cm. , if MA = 8 cm.
     , then the point A lies · ···· the circle

(inside   or   outside   or   on   or   otherwise)

(7) 43 days =   weeks. (to the nearest week)

(4   or   5   or   6   or   7)

(8) A Á =   ·   (Á   or   A   or   Ø   or   U)

(9) $736.592 \approx 736.59$ (to the nearest   )

(unit   or   tenth   or   hundredth   or   thousandth)

(10) If $X \subset Y$, then $X \cup Y =$ (X   or   Y   or   Ø   or   U)

(11) The quotient of diving $1.92 \div 0.6 =$

(3.5   or   3.2   or   3.1   or   3)

(12) 7.3 m. =   dm   (73   or   0.73   or   73   or   730)

(13) The altitudes of the obtuse-angled triangle intersect at one point
     located   the triangle.

(inside   or   on   or   outside   or   otherwise)

(14) 7   the set of days of the week   (∈   or   ∉   or   ⊂   or   ⊄)

---

2 Complete the following ·

(1) The number of subsets of the set $\{a , b\}$ is

(2) If $\frac{x}{3} = \frac{20}{12}$, then $x =$

(3) The number of altitudes in the equilateral triangle =

(4) $2\frac{3}{4} + 1\frac{3}{8} =$

(5) As throwing a fair die once , then the probability of appearing
     a number less than 3 is

(6) $\{2 , 4 , 6\} \cap$ the set of all factors of the number 6 =

(7) Any chord passing through the centre of a circle is called

(8) The ascending order of $\frac{1}{4}$, $\frac{4}{5}$, 0.4 and $\frac{3}{4}$

     is ····   ,   ·   ,   ··   and

3 Answer the following :

(1) A factory produces 235 pieces of cloth monthly , in how many months does it produce 26555 pieces of cloth ?

(2) From the opposite Venn diagram , find the following

[a] $A \cap B$ = [b] $A \cup B$ =

[c] $A - B$ = [d] $A^{`}$ =
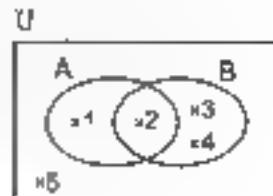
(3) A card has been randomly drawn out of 10 cards numbered from 1 to 10 Find the probability of getting :

[a] A prime number =

[b] An even number less than 6 =

(4) Draw the triangle ABC in which

AB = 4 cm. , BC = 6 cm and CA = 8 cm.

, then draw a circle whose centre is B

and its radius length is equal to 4 cm.

, then complete

.... is called the radius of the circle

(19) Kafr El-Sheikh Governorate [Maths Supervision]

Answer the following questions :

1 Complete :

(1) If $A \subset B$, then $A - B$ =

(2) $2\frac{3}{4} + 1\frac{3}{8}$ =

(3) The longest chord in the circle is called ....

(4) 3.125×4.3 = ... ≈ .... (to the nearest 0.01)

(5) $\frac{2}{5} \times 15$ =

(6) The number of subsets of the set A = $\{5 , 2\}$ is ....

(7) The number of altitudes of the right - angled triangle is ....

(8) The probability of the impossible event = ...

2 Choose the correct answer :

(9) $806.7 \div 100 =$ (80.67   or   8.607   or   8.076   or   8.067)

(10) $\{5\}$ $\{15, 55\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(11) The altitudes of any triangle intersect at ......

     (three points   or   two points   or   one point   or   zero point)

(12) 40 days $\approx$ ...... weeks. (to the nearest week)

     (8   or   7   or   6   or   5)

(13) $2.7 \times 3.5 \boxed{} 0.27 \times 35$ ($\neq$ or $>$ or $<$ or $=$)

(14) If $\{3, 5\} \cdot \{5, x\} = \varnothing$, then $x =$ (3   or   5   or   8   or   2)

(15) $\varnothing$ .... $\{0, 7\}$ ($\in$ or $\notin$ or $\subset$ or $\not\subset$)

(16) $255 \div 25 = 2.55 \div$ ......   (2.5   or   0.25   or   25   or   2500)

(17) $\frac{3}{7} \times 1\frac{5}{9} =$ ($\frac{3}{2}$ or $\frac{2}{3}$ or $1\frac{15}{63}$ or $\frac{3}{4}$)

(18) $6630 \div 195 =$ (304   or   340   or   430   or   34)

(19) If $5 \in \{2, x+4, 7\}$, then $x =$ (1   or   5   or   9   or   13)

(20) $2 \boxed{} \frac{9}{4}$ ($>$ or $<$ or $=$ or $\geq$)

(21) If $X - Y = X$, then $X \cap Y =$ (X   or   Y   or   U   or $\varnothing$)

(22) A circle , its radius length = 3.5 cm , then its diameter length = ... cm.

     (5   or   6.10   or   7   or   8)

3 Answer the following .

(23) A card is drawn from numbered cards from 1 to 10 randomly

     Find the probability that the drawn card is carrying

     [a] An odd number =   [b] A prime number =

     [c] A number less than 11 =

     [d] A whole number between 5 and 6 =

(24) The opposite Venn diagram represents the sets A , B , C and U , complete

     [a] $A \cup C =$ ......   [b] $A \cap B =$

     [c] $B - C =$ ......   [d] $(A \cup B) =$

(25) Arrange the following fractions in an ascending order

     $14\frac{1}{4}$, 15.025 , 14.375 and $14\frac{1}{8}$

     The order is ...... , ... , ... and ......
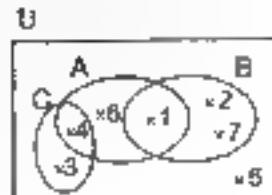
(26) Draw the triangle ABC in which

AB = 7 cm. , BC = CA = 6 cm.

, then draw the line segment from

the point C that is perpendicular to AB

, and find its length.

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(20) El-Beheira Governorate Damanhur Educational Directorate
Al-Farabi Language School.

Answer the following questions :

1 Choose the correct answer :

(1) The triangle which the measures of its angles are 50° , 90° and 40° is called ――――― triangle.

(acute-angled **or** obtuse-angled **or** right-angled **or** otherwise)

(2) $4\frac{1}{3} \times 2\frac{1}{13} =$　　　　　　　　　　　(1 **or** 10 **or** 9 **or** 111)

(3) If $\{7 , 10\} = \{10 , x + 4\}$, then $x =$　　　(3 **or** 4 **or** 5 **or** 6)

(4) 3.75 × 1000 =　　　　　　(0 375 **or** 0 0375 **or** 3750 **or** 37 5)

(5) $\frac{1}{2} \boxed{} \frac{1}{3}$　　　　　　　　　　(< **or** > **or** = **or** otherwise)

(6) 9 989 ≈ 　　　　　(to the nearest 0.01) (9 9 **or** 10 **or** 9 99 **or** 9)

(7) 55.241 × 100 $\boxed{}$ 522 41 × 10　　(< **or** > **or** = **or** otherwise)

(8) $\frac{2}{3} \times$ ――――― = 1　　　　　　(1 **or** 2 **or** 3 **or** $\frac{3}{2}$)

(9) 43 days =　　　　weeks.　　　　　(4 **or** 6 **or** 5 **or** 7)

(10) Each chord passing through the centre of the circle is called a in the circle.　　　(diameter **or** radius **or** side **or** otherwise)

(11) The smallest number from the following is

(0.111 **or** 0.12 **or** 0.123 **or** 1 023)

(12) If $Y = \{2 , 4 , 6\} \cup \{1 , 2 , 3\}$, then 6　　　　Y

(∈ **or** ∉ **or** ⊂ **or** ⊄)

(13) A class has 40 pupils , 25 of them are boys and the remainder are girls , if a pupil is chosen randomly , then the probability that the chosen pupil is a girl –　　　　($\frac{3}{8}$ **or** $\frac{5}{8}$ **or** $\frac{3}{5}$ **or** 1)

(14) The number of the altitudes in any triangle =

(1 or 2 or 3 or 4)

2 Complete each of the following .

(1) $\frac{4}{6} + \frac{6}{12} =$

(2) The probability of the certain event =

(3) If X and Y are two sets and $X \subset Y$, then $X \cap Y =$

(4) If $5 \in \{1 , x\}$, then $x =$

(5) 4.6788 =   (to the nearest thousandth)

(6) 2.25 + 1.5 =

(7) 3.453 + 4.332 = $\simeq$ $\left(\text{to the nearest } \frac{1}{100}\right)$

(8) 0.532 × 3.2 =

3 Answer the following :

(1) If the universal set $U = \{x \quad x \text{ is an odd number} , 1 \leq x \leq 15\}$, $X = \{1 , 3\}$, $Y = \{1 , 5 , 9 , 13\}$, draw a Venn diagram which expresses the sets U , X and Y , then find

[a] $X \cap Y =$ ....   [b] $\acute{Y} =$

(2) Draw $\triangle ABC$ in which AB = 7 cm , BC = CA = 6 cm. , then draw the line segment from point C that is perpendicular to AB at D and find its length.

(3) A bag contains 5 white balls , 9 red balls and 6 black balls. If one ball is chosen randomly , what is the probability that the chosen ball is

[a] White ?   ....   [b] Not red ?

(4) A rectangle whose length is 4.1 cm. and width is 3.5 cm. , calculate its area.

(21) El-Menia Governorate

Answer the following questions :

1 Choose the correct answer :

(1) $\frac{5}{6} + 1\frac{1}{6} =$ ($\frac{5}{7}$ or $\frac{2}{6}$ or $\frac{3}{7}$ or $\frac{7}{6}$)

(2) 43 days ≈ weeks (to the nearest week) (4 or 6 or 5 or 7)

(3) If {2 , 3 , 4} = {3 , 4 , x} , then $x =$ (2 or 3 or 4 or 5)

(4) 10 × 4 72 ☐ 100 × 0.472 (> or < or = or ≠)

(5) In any triangle , the number of its altitudes = (1 or 2 or 3 or 4)

(6) $3\frac{1}{8} ≈$ (to the nearest hundredth) (3.10 or 3.12 or 3.13 or 3.11)

(7) Ø ⋯ {0} (= or ⊂ or ⊄ or ∈)

(8) 3.36 km = m. (3.36 or 33.6 or 336 or 3360)

(9) In the opposite figure ·
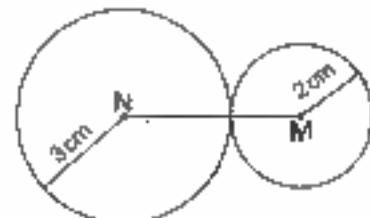
MN = cm (2 or 3 or 6 or 5)

(10) If X = {3 , 4 , 5} , Y = {2 , 3 , 4} , then 5 X Y (∈ or ∉ or ⊂ or ⊄)

(11) 48 2 × 3.7 ☐ 4 82 × 37 (> or < or = or ≠)

(12) The shaded part represents (X∩Y or X∪Y or X−Y or Y−X)
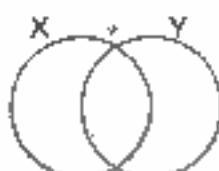
(13) 12.3 × ⁻ 1230 (10 or 100 or 1000 or 10000)

(14) {52} {5 , 2} (∈ or ∉ or ⊂ or ⊄)

2 Complete

(1) $2.03 \times 0.07 = $

(2) A circle of diameter length 4 cm , then its radius length =   cm.

(3) If the probability of a pupil succeed in an exam is $\frac{8}{10}$, then the probability of his fail =

(4) $2\frac{1}{4} \times$ = 1

(5) The longest chord in a circle is called

(6) If $X \subset Y$, then $X \cap Y = $

(7) If $\frac{b}{8} = \frac{15}{24}$, then b =

(8) In the opposite figure :

    $X \cap Y = $
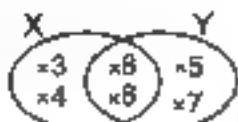
3 Answer the following

(1) Arrange in a descending order :

$$\frac{1}{2} , 0.8 , \frac{1}{4} \text{ and } 0.3$$

The descending order is   ,   ,   and

(2) Find the subsets of the set $\{8\}$

The subsets are   and

(3) From the table , find the probability that a pupil plays basketball

Game	Footba	Basketball	Handball
Number of pupils	50	40	10

The probability =

(4) Draw the triangle ABC where

    AB = 4 cm , BC = 6 cm. , CA = 8 cm

    , then draw a circle its centre B

    and its radius length 4 cm.

22 Souhag Governorate — Maths Supervision

Answer the following questions.

1 Choose the correct answer :

(1) $9\frac{3}{25} \simeq$ _____ (to the nearest tenth)   { 0.9 or 9.2 or 9.1 or 9 }

(2) 0.312×100 ___ $312 \div 100$ (> or < or = or ≤)

(3) The shaded part represents

(X ∪ Y or X ∩ Y or X − Y or Y − X)

(4) The number of altitudes in the right-angled triangle is

(1 or 2 or 3 or 4)

(5) If $\{7 , 10\} \subset \{10 , x + 4\}$, then $x =$

(3 or 4 or 5 or 6)

(6) The reciprocal of $3\frac{1}{2}$ is   ($\frac{7}{2}$ or $\frac{2}{7}$ or $3\frac{2}{1}$ or 8)

(7) $5.035 \simeq$ _____ $\left(\text{to the nearest } \frac{1}{100}\right)$ (5 or 500 or 5.04 or 5.03)

(8) The set of odd numbers is _____ set.

(a finite or an empty or an infinite)

(9) The number of subsets of the set $\{a , b\}$ is

(3 or 4 or 5 or 2)

(10) The length of the longest chord in the circle is 6 cm , then the length of the radius of this circle = _____ cm.   (6 or 3 or 4.5 or 12)

(11) $\{7 , 8\}$ _____ $\{5 , 7 , 10\}$ (∈ or ∉ or ⊂ or ⊄)

(12) $\frac{5}{6} + 1\frac{1}{6} =$ _____   ($\frac{5}{7}$ or $\frac{2}{6}$ or $\frac{3}{7}$ or $\frac{7}{6}$)

(13) If $\frac{a}{3} = \frac{5}{15}$, then $a =$ (4 or 5 or 1 or 2)

(14) 12 _____ $\{10 , 2\}$ (∈ or ∉ or ⊂ or ⊄)

2 Complete each of the following

(1) 3.002 kg. = _____ gm

(2) The probability of the sure event =

(3) $\frac{3}{7} \times \quad \cdot = 1$

(4) If $X \subset Y$, then $X \cap Y =$

(5) The area of a rectangle of 15.5 metres long and 5.5 metres wide is
          m^2

(6) $3.75 \times 1000 =$

(7) The longtest chord in a circle is called a

(8) $6.3729 =$ $\left(\text{to the nearest } \frac{1}{1000}\right)$

---

3 Answer the following

(1) Arrange the following numbers in an ascending order
$$\frac{1}{4} \quad , \quad 0.8 \quad , \quad 0.4 \quad , \quad \frac{1}{2} \quad \text{and} \quad \frac{3}{4}$$
The ascending order is   ····· ·· , ·· ·· ··· ,· ·· ···· · ,··· ··· ·· and

(2) Look at the opposite Venn diagram , then complete

[a] $X \cup Y =$

[b] $X - Y =$

[c] $(X \cup Y) =$

[d] $X \cap Y =$
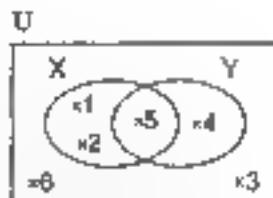
(3) Draw the triangle ABC where
AB = 6 cm. and BC = AC = 5 cm.

(4) If the price of one metre of cloth is L.E 39.8 , what is the price of 8.5
metres to the nearest L.E. ?

(5) A box contains 3 white balls , 7 red balls and 5 yellow balls , a of equal
size , one ball is chosen randomly , find the probability of getting

[a] A white ball =   [b] Not yellow ball =

(23) Qena Governorate

Qena Directorate Education
Experimental Language School

Answer the following questions :

1 Choose the correct answer :

(1) 3.36 km. =   m.   (3.36 *or* 33.6 *or* 336 *or* 3360)

(2) 9.16 =   (to the nearest tenth) (0.9 *or* 9.2 *or* 9.1 *or* 9)

(3) 0.312 × 100 ☐ 312 ÷ 100   (< *or* > *or* = *or* ≤)

(4) The smallest number from the following is

(0.111 *or* 0.12 *or* 0.123 *or* 1.023)

(5) $\frac{5}{6} + 1\frac{1}{6} =$ ($\frac{5}{7}$ *or* $\frac{2}{6}$ *or* $\frac{3}{7}$ *or* $\frac{7}{6}$)

(6) A circle with a diameter length 6 cm. , then its radius length =   cm

(2 *or* 4 *or* 3 *or* 6)

(7) The probability of the impossible event =

(0 *or* 1 *or* 0.5 *or* 2)

(8) If X ⊂ Y , then X ∪ Y =   (X *or* Y *or* U *or* Ø)

(9) As throwing a fair die once , then the probability of getting an odd
number = ‒ ‒ ‒   (1 *or* 0 *or* $\frac{1}{2}$ *or* $\frac{1}{3}$)

(10) The number of altitudes of a triangle =

(1 *or* 2 *or* 0.5 *or* 3)

2 Complete the following :

(1) The longest chord in the circle is called

(2) If {4 , 6} = {1 + x , 4} , then x =

(3) 2.5 × 2.31 =

(4) $5\frac{1}{3} \times 6 =$

(5) $\frac{2}{5} + \frac{7}{5} =$

3 Answer the following

(1) If U = {1 , 2 , 3 , 4 , 5 , 6 , 9} , X = {2 , 3 , 5} and Y = {2 , 4 , 6}
Represent each of X , Y and U using a Venn diagram , then find

[a] $X \cup Y = \{\cdots\cdots\cdots\}$

[b] $X \cap Y = \{\cdots\cdots\cdots\}$

[c] $U - X = \{\cdots\cdots\cdots\}$

[d] $\acute{Y} = \{\cdots\cdots\cdots\}$

(2) Find the area of the rectangle whose length is 4.1 cm. and its width is 3.5 cm.

The area of the rectangle = ··

(3) Rearrange the following fractions descendingly :

$$\frac{1}{2} , 0.8 , \frac{1}{4} \text{ and } 0.3$$

The order is : ·············· , ·············· , ·············· and ··············

(4) Draw the equilateral triangle ABC

whose side length = 5 cm. , then

draw $\overline{AD} \perp \overline{BC}$, then find :

[a] The perimeter of triangle ABC

[b] m ($\angle$ CAD) by measuring.

(5) A fair die is thrown once , what is the probability of each the following events ?

[a] Appearing an odd number = ··············

[b] Appearing an even number = ··············

[c] Appearing a number less than one = ··············

(24) **Luxor Governorate** 　Luxor Educational Zone
El-Salaam private Language School

Answer the following questions :

1 Choose the correct answer :

(1) A circle , its diameter length is 10 cm. , then its radius length = ·············· cm.

(3 **or** 5 **or** 6 **or** 9)

(2) $0.737 \simeq$ ············· (to the nearest hundredth)

(0.72 *or* 0.74 *or* 0.738 *or* 0.8)

(3) If $9 \in \{8 , 3 , x\}$, then $x =$ ············· (9 *or* 4 *or* 7 *or* 8)

(4) If $\frac{2}{5} = \frac{a}{15}$, then a = ············· (6 *or* 9 *or* 7 *or* 1)

(5) If $X = \{1 , 2 , 3\}$, $Y = \{2 , 3 , 5 , 6\}$, then $X \cap Y =$ ·············

($\{1\}$ *or* $\{2 , 3\}$ *or* $\{1 , 2\}$ *or* $\{1 , 2 , 3\}$)

(6) Any triangle has ············· altitudes. (4 *or* 2 *or* 3 *or* 5)

(7) $\{2 , 5 , 6\} - \{6 , 5 , 3\} =$ ·············

($\{2\}$ *or* $\{2 , 5 , 6\}$ *or* $\{5\}$ *or* $\{5 , 6\}$)

(8) 3 ············· $\{2 , 3\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(9) $\frac{5}{8}$ ☐ $\frac{3}{8}$ (> *or* < *or* = *or* $\leq$)

(10) $7.134 \times 100 =$ ············· (0.7134 *or* 713.4 *or* 7134 *or* 71340)

(11) $1.2 \times 3 =$ ············· (4.8 *or* 0.36 *or* 0.48 *or* 3.6)

(12) $\frac{2}{5} + \frac{1}{4} =$ ············· ($\frac{8}{5}$ *or* $\frac{6}{5}$ *or* $\frac{2}{8}$ *or* $\frac{3}{8}$)

(13) $\varnothing$ ············· $\{3 , 8\}$ ($\in$ *or* $\notin$ *or* $\subset$ *or* $\not\subset$)

(14) $75.3 \div 100 =$ ············· (735 *or* 7.53 *or* 0.753 *or* 75300)

2 Complete :

(1) $3.6788 \simeq$ ············· (to the nearest thousandth)

(2) The longest chord in a circle is called ·············

(3) If $\frac{4}{7} < \frac{x}{7} < \frac{6}{7}$, then $x =$ ·············

(4) $\{1 , 3 , 5\} \cup \{4 , 2\} =$ ·············

(5) $31.2 \div 10 =$ ·············

(6) If $\{a , 7\} = \{7 , 8\}$, then a = ·············

(7) The altitudes of the acute-angled triangle intersect ············· the triangle.

(8) The probability of the certain event = ·············

3 Answer the following :

(1) Find the result :

$\frac{1}{5} \times \frac{3}{4} =$ ·············

(2) A bag contains 2 white balls , 4 red balls and 5 yellow balls. All the balls are equal in size. If a ball is drawn randomly :

[a] The probability that the drawn ball is white = ···············

[b] The probability that the drawn ball is yellow = ···············

(3) From the opposite Venn diagram , find :

[a] U = ···············

, [b] X ∩ Y = ···············

(4) Draw equilateral triangle ABC whose side length = 5 cm. and draw an altitude from a vertex C perpendicular to $\overline{AB}$
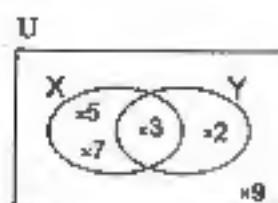
25 Aswan Governorate

Answer the following questions :

1 Choose the correct answer :

(1) $X \cup \grave{X}$ = ···············   (X   or   Ø   or   U)

(2) 13.376 ≃ ··············· (to the nearest hundredth)

(13.37   or   13.38   or   13.36)

(3) 3.75 × 1000 = ···············   (0.375   or   3750   or   37.5)

(4) $\frac{1}{2}$ ☐ $\frac{1}{3}$ (>   or   <   or   =)

(5) If $\frac{x}{8} = \frac{15}{24}$, then x = ···············   (3   or   4   or   5)

(6) $\frac{2}{3}$ × ··············· = 1   (1   or   2   or $\frac{3}{2}$)

(7) $\frac{7}{10} + \frac{9}{10}$ = ···············   ($\frac{7}{9}$ or $\frac{9}{10}$ or $\frac{7}{10}$)

(8) 7.2 × 0.9 = ···············   (6.48   or   648   or   0.648)

(9) 75.3 ÷ 100 = ···············   (753   or   7.53   or   0.753)

(10) Ø ··············· {1 , 2 , 3}   (∈   or   ∉   or   ⊂   or   ⊄)

(11) If {2 , 5} = {5 , a} , then a = ···············   (1   or   2   or   3)

(12) If $5 \in \{1, 4 + x\}$, then $x =$ .... (1 *or* 3 *or* 5)

(13) In the opposite figure :

$\overline{AB}$ is called a ....
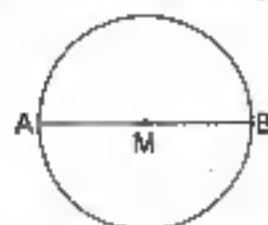
(radius *or* chord *or* diameter)

(14) The shaded part represents ....

($X \cup Y$ *or* $X \cap Y$ *or* $X - Y$)

2 Complete :

(1) $48.4 \div 0.4 =$ ....

(2) $3978 \div 234 =$ ....

(3) If $X \subset Y$, then $X \cap Y =$ ....

(4) If $X = \{2, 3\}$, $Y = \{3, 5\}$, then $X \cup Y =$ ....

(5) The longest chord in a circle is called ....

(6) The right-angled triangle has .... altitudes.

(7) $38.76 + 25.38 =$ ....

(8) When tossing a coin once , then the probability of appearing
a tail = ...

3 Answer the following :

(1) An owner of packing food factories wanted to pack 2952 kilograms of
sugar equally in 123 packs. What is the weight of each pack ?

....

(2) If $X = \{1, 2, 3, 4\}$, $Y = \{2, 4, 6, 8\}$ Find : $X - Y$

....

(3) A box contains identical balls where 5 white balls , 9 red balls and
6 black balls. What is the probability that the chosen ball is white ?

....

(4) Draw the isosceles triangle ABC
in which BC = 4 cm. and
AB = AC = 6 cm. , then draw $\overline{AD} \perp \overline{BC}$